

FIGURE 1A

CATCATCAAT AATCTACAGT AACTGATGG CAGCGGTCCA ACTGCCAATC ATTTTTGCCA	60
CGTCATTTAT GACGCAACGA CGGCGAGCGT GGCCTGCTGA CGTAACTGTG GGGCGGAGCG	120
CGTCGCGGAG GCGGCGGCGC TGGGCGGGGC TGAGGGCGGC GGGGGCGGCG CGCGGGGCGG	180
CGCGCGGGGC GGGGCGAGGG GCGGAGTTCC GCACCCGCTA CGTCATTTTC AGACATTTTT	240
TAGCAAATTT GCGCCTTTTG CAAGCATTTT TCTCACATTT CAGGTATTTA GAGGGCGGAT	300
TTTTGGTGTG CTACTTCCG TGTCACATAG TTCACTGTCA ATCTTCATTA CGGCTTAGAC	360
AAATTTTCGG CGTCTTTTCC GGGTTTATGT CCCCAGTCAC CTTTATGACT GTGTGAAACA	420
CACCTGCCCC TTGTTTACCC TTGGTCAGTT TTTTCGTCTC CTAGGGTGGG AACATCAAGA	480
ACAAATTTGC CGAGTAATTG TGCACCTTTT TCCGCGTTAG GACTGCGTTT CACACGTAGA	540
CAGACTTTTT CTCATTTTCT CACACTCCGT CGTCCGCTTC AGAGCTCTGC GTCTTCGCTG	600
CCACCATGAA GTACCTGGTC CTCGTTCTCA ACGACGGCAT GAGTCGAATT GAAAAAGCTC	660
TCCTGTGCAG CGATGGTGAG GTGGATTTAG AGTGTCAATG GGTACTTCCC CCTTCTCCCG	720
CGCCTGTCCC CGCTTCTGTG TCACCCGTGA GGAGTCTTCC TCCTCTGTCT CCGGTGTTTC	780
CTCCGTCTCC GCCAGCCCCG CTTGTGAATC CAGAGGCGAG TTCGCTGCTG CAGCAGTATC	840
GGAGAGAGCT GTTAGAGAGG AGCCTGCTCC GAACGGCCGA AGGTCAGCAG CGTGCACTGT	900
GTCCATGTGA GCGGTTGCCG GTGGAAGAGG ATGAGTGTCT GAATGCCGTA AATTTGCTGT	960
TTCCTGATCC CTGGCTAAAT GCAGCTGAAA ATGGGGGTGA TATTTTAAAG TCTCCGGCTA	1020
TGTCTCGAGA ACCGTGGATA GATTTGTCTA GCTACGATAG CGATGTAGAA GAGGTGACTA	1080
GTCATTTTTT TCTGGATTGC CCTGAAGACC CCAGTCGGGA GTGTTCATCT TGTGGGTTTC	1140
ATCAGGCTCA AAGCGGAATT CCAGGCATTA TGTGCAGTTT GTGCTACATG CGCCAAACCT	1200
ACCATTGCAT CTATAGTAAG TACATTCTGT AAAAGAACAT CTTGGTGATT TCTAGGTATT	1260
GTTTAGGGAT TAACTGGGTG GAGTGATCTT AATCCGGCAT AACCAAATAC ATGTTTTTAC	1320
AGGTCCAGTT TCTGAAGAGG AAATGTGAGT CATGTTGACT TTGGCGCGCA AGAGGAAATG	1380
TGAGTCATGT TGACTTTGGC GCGCCCTACG GTGACTTTAA AGCAATTTGA GGATCACTTT	1440
TTTGTTAGTC GCTATAAAGT AGTCACGGAG TCTTCATGGA TCACTTAAGC GTTCTTTTGG	1500
ATTTGAAGCT GCTTCGCTCT ATCGTAGCGG GGGCTTCAAA TCGCACTGGA GTGTGGAAGA	1560
GGCGGCTGTG GCTGGGACGC CTGACTCAAC TGGTCCATGA TACCTGCGTA GAGAACGAGA	1620
GCATATTTCT CAATTCTCTG CCAGGGAATG AAGCTTTTTT AAGGTTGCTT CGGAGCGGCT	1680
ATTTTGAAGT GTTTGACGTG TTTGTGGTGC CTGAGCTGCA TCTGGACACT CCGGGTCGAG	1740
TGGTCGCCGC TCTTGCTCTG CTGGTGTTCA TCCTCAACGA TTTAGACGCT AATTCTGCTT	1800
CTTCAGGCTT TGATTGAGG TTTCTCGTGG ACCGTCTCTG CGTGCCGCTA TGGCTGAAGG	1860

FIGURE 1B

CCAGGGCGTT CAAGATCACC CAGAGCTCCA GGAGCACTTC GCAGCCTTCC TCGTCGCCCCG 1920
 ACAAGACGAC CCAGACTACC AGCCAGTAGA CGGGGACAGC CCACCCCGGG CTAGCCTGGA 1980
 GGAGGCTGAA CAGAGCAGCA CTCGTTTCGA GCACATCAGT TACCGAGACG TGGTGGATGA 2040
 CTTCAATAGA TGCCATGATG TTTTTTATGA GAGGTACAGT TTTGAGGACA TAAAGAGCTA 2100
 CGAGGCTTTG CCTGAGGACA ATTTGGAGCA GCTCATAGCT ATGCATGCTA AAATCAAGCT 2160
 GCTGCCCGGT CGGGAGTATG AGTTGACTCA ACCTTTGAAC ATAACATCTT GCGCCTATGT 2220
 GCTCGGAAAT GGGGCTACTA TTAGGGTAAC AGGGGAAGCC TCCCCGGCTA TTAGAGTGGG 2280
 GGCCATGGCC GTGGGTCCGT GTGTAACAGG AATGACTGGG GTGACTTTTG TGAATTGTAG 2340
 GTTTGAGAGA GAGTCAACAA TTAGGGGGTC CCTGATACGA GCTTCAACTC ACGTGCTGTT 2400
 TCATGGCTGT TATTTTATGG GAATTATGGG CACTTGATTT GAGGTGGGGG CGGGAGCTTA 2460
 CATTCGGGGT TGTGAGTTTG TGGGCTGTTA CCGGGGAATC TGTTCCTACTT CTAACAGAGA 2520
 TATTAAGGTG AGGCAGTGCA ACTTTGACAA ATGCTTACTG GGTATTACTT GTAAGGGGGA 2580
 CTATCGTCTT TCGGGAAATG TGTGTTCTGA GACTTTCTGC TTTGCTCATT TAGAGGGAGA 2640
 GGGTTTGGTT AAAACAACA CAGTCAAGTC CCCTAGTCGC TGGACCAGCG AGTCTGGCTT 2700
 TTCCATGATA ACTTGTGCAG ACGGCAGGGT TACGCCTTTG GGTTCCTCC ACATTGTGGG 2760
 CAACCGTTGT AGGCGTTGGC CAACCATGCA GGGGAATGTG TTTATCATGT CTAACCTGTA 2820
 TCTGGGCAAC AGAATAGGGA CTGTAGCCCT GCCCCAGTGT GCTTTCTACA AGTCCAGCAT 2880
 TTGTTTGGAG GAGAGGGCGA CAAACAAGCT GGTCTTGGCT TGTGCTTTTG AGAATAATGT 2940
 ACTGGTGTAC AAAGTGCTGA GACGGGAGAG TCCCTCAACC GTGAAAATGT GTGTTTGTGG 3000
 GACTTCTCAT TATGCAAAGC CTTTGACACT GGCAATTATT TCTTCAGATA TTCGGGCTAA 3060
 TCGATACATG TAACTGTGG ACTCAACAGA GTTCACTTCT GACGAGGATT AAAAGTGGGC 3120
 GGGGCCAAGA GGGGTATAAA TAGGTGGGGA GGTGAGGGG AGCCGTAGTT TCTGTTTTTC 3180
 CCAGACTGGG GGGGACAACA TGGCCGAGGA AGGGCGCATT TATGTGCCTT ATGTAAGTGC 3240
 CCGCCTGCCC AAGTGGTCGG GTTCGGTGCA GGATAAGACG GGCTCGAACA TGTGGGGGG 3300
 TGTGGTACTC CCTCCTAATT CACAGGCGCA CCGGACGGAG ACCGTGGGCA CTGAGGCCAC 3360
 CAGAGACAAC CTGCACGCCG AGGGAGCGCG TCGTCCTGAG GATCAGACGC CCTACATGAT 3420
 CTTGGTGGAG GACTCTCTGG GAGGTTTGAA GAGGCGAATG GACTTGCTGG AAGAATCTAA 3480
 TCAGCAGCTG CTGGCAACTC TCAACCGTCT CCGTACAGGA CTCGCTGCCT ATGTGCAGGC 3540
 TAACCTTGTG GCGGGCCAAG TTAACCCCTT TGTTTAAATA AAAATACACT CATACAGTTT 3600
 ATTATGCTGT CAATAAAATT CTTTATTTTT CCTGTGATAA TACCGTGTCC AGCGTGCTCT 3660

FIGURE 1C

GTCAATAAGG	GTCCTATGCA	TCCTGAGAAG	GGCCTCATAT	ACCATGGCAT	GAATATTAAG	3720
ATACATGGGC	ATAAGGCCCT	CAGAAGGGTT	GAGGTAGAGC	CACTGCAGAC	TTTCGTGGGG	3780
AGGTAAGGTG	TTGTAAATAA	TCCAGTCATA	CTGACTGTGC	TGGGCGTGGA	AGGAAAAGAT	3840
GTCTTTTAGA	AGAAGGGTGA	TTGGCAAAGG	GAGGCTCTTA	GTGTAGGTAT	TGATAAATCT	3900
G TTCAGTTGG	GAGGGATGCA	TTCGGGGGCT	AATAAGGTGG	AGTTTAGCCT	GAATCTTAAG	3960
GTTGGCAATG	TTGCCCCCTA	GGTCTTTGCG	AGGATTCATG	TTGTGCAGTA	CCACAAAAAC	4020
AGAGTAGCCT	GTGCATTGG	GGAATTTATC	ATGAAGCTTG	GAGGGGAAGG	CATGAAAAAA	4080
TTTTGAGATG	GCTTTATGGC	GCCCCAGGTC	TTCCATGCAT	TCGTCCATAA	TAATAGCAAT	4140
AGGCCCGGTT	TTGGCTGCCT	GGGCAAACAC	GTTCTGAGGG	TGGGCGACAT	CATAGTTGTA	4200
GTCCATGGTC	AGGTCTTCAT	AGGACATGAT	CTTAAAGGCA	GGTTTTAGGG	TGCTGCTTTG	4260
AGGAACCAGA	G TTCCTGTGG	GGCCGGGGGT	G TAGTTCCCT	TCACAGATTT	GGGTCTCCCA	4320
AGCAAGCAGT	TCTTGCGGGG	GTATCATGTC	AACTTGGGGG	ACTATAAAAA	AAACAGTTTC	4380
GGGAGGTGGT	TGAATGAGGC	CCGTAGACAT	AAGGTTTCTG	AGGAGCTGGG	ATTTTCCACA	4440
ACCGGTTGGT	CCGTAGACCA	CCCCAATAAC	GGGTTGCATG	GTAAAGTTTA	AAGATTTGCA	4500
TGAACCGTCA	GGGCGCAGAT	ATGGCATGGT	GGCATT CATG	GCATCTCTTA	TCGCCTGATT	4560
ATAGTCTGAG	AGGGCATTGA	G TAGGGTGGC	GCCCCCATA	GCCAGTAGCT	CGTCCAAGGA	4620
AGAAAAGTGT	CTAAGAGGTT	TGAGGCCTTC	AGCCATGGGC	ATGGACTCTA	AGCACTGTTG	4680
CATGAGAGCA	CATTTGTCCC	AAAGCTCAGA	GACGTGGTCT	AGTACATCTC	CATCCAGCAT	4740
AGCTCTTTGT	TTCTTGGGTT	GGGGTGGCTG	TTGCTGTAGG	GGGCGAGACG	GTGACGGTCG	4800
ATGGCCCGCA	GGGTGCGGTC	TTTCCAGGGC	CTGAGCGTCC	TCGCCAGGGT	CGTCTCGGTG	4860
ACCGTGAAGG	GCTGCTGATG	CGTCTGTCTG	CTGACCAGCG	AGCGCCTCAG	GCTGAGCCTG	4920
CTGGTGCCGA	ACTTTTCGTC	GCCTAGCTGT	TCAGTGGAAT	AATAACAAGT	CACCAGAAGG	4980
TCGTAGGAGA	GTTGTGAGGT	GGCATGGCCT	TTGCTCGAAG	TTTGCCAGAA	CTCTCGGCGG	5040
CGGCAGCTTG	GGCAGTAGAT	GTTTTTAAGG	GCATATAGTT	TGGGGGCTAA	GAAGACAGAT	5100
TCCTGGCTGT	GGGCGTCTCC	GTGGCAGCGG	GGGCACTGGG	TCTCGCATT C	CACAAGCCAA	5160
GTCAGCTGAG	GGTTGGTGGG	ATCAAAGACC	AGAGGACGGT	TATTACCTTT	CAGGCGGTGC	5220
TTGCCTCGGG	TGTCCATGAG	TTCCTTTCCC	CTTTGGGTGA	GAAACATGCT	GTCCGTGTCT	5280
CCGTAGACAA	ATTTGAGAAT	CCGGTCTTCT	AGGGGAGTGC	CTCTGTCTTC	TAAATAGAGG	5340
ATGTCTGCCC	ATTCAGAGAC	AAAGGCTCTA	GTCCACGCGA	GGACAAATGA	AGCTATGTGT	5400
GAGGGGTATC	TGTTATTAAA	TATGAGAGAG	GATTTTTTTT	GCAAAGTATG	CAGGCACAGG	5460
GCTGAGTCAT	CAGCTTCCAG	AAAGGTGATT	GGTTTGTAAG	TGTATGTCAC	GTGATGGTTC	5520

FIGURE 1D

TGGGGGTCTC CCAGGGTATA AAAGGGGGCG TCTTCGTCTG AGGAGCTATT GCTAGTGGGT 5580
 GTGCACTGAC GGTGCTTCCG CGTGGCATCC GTTTGCTGCT TGACGGGTGA GTAGGTGATT 5640
 TTTAGCTCTG CCATGACAGA GGAGCTCAGG TTGTCACTTT CCACGAAGGC GGTGCTTTTG 5700
 ATGTCGTAGG TGCCGTCTGA AATGCCTCTA ACATATTTGT CTTCCATTTG GTCAGAAAAG 5760
 ACAGTGA CTC TGTGTCTAG CTTAGTGGCA AAGCTGCCAT ACAGGGCATT GGACAGCAGT 5820
 TTGGCAATGC TTCTGAGAGT TTGGTTTTTC TCTTTATCCG CCCTTTCCTT GGGCGCAATG 5880
 TTAAGTTGCA CGTAGTCTCT AGCCAGACAC TCCCACTGGG GAAATACTGT GGTGCGGGGG 5940
 TCGTTGAGAA TTTGGACTCT CCAGCCGCGG TTATGAAGCG TGATGGCATC CAAACAAGTT 6000
 ACCACTTCCC CCCGTAGTGT CTCGTTGGTC CAGCAGAGGC GACCTCCTTT TCTGGAGCAG 6060
 AAGGGCGGTA TAACGTCCAA GAATGCTTCT GGGGGTGGGT CTGCATCAAT GGTGAATATC 6120
 GCGGGCAGTA GGTGCGATC AAAATAGTCA ATGGGTCTGT GCAACTGGGT TAGGCGGTCT 6180
 TGCCAGTTT TAATTGCAAG CGCTCGATCA AAGGGTTCA AAGGTTTCC CGCTGGGAAA 6240
 GGATGGGTGA GGGCGCTGGC ATACATGCCG CAGATGTCAT ACACATAGAT GGCTTCTGTT 6300
 AGGACGCCA TGTAGGTAGG ATAGCATCGG CCGCCCCGAA TACTTTCTCT AACGTAATCA 6360
 TACATTTTCA TGGGAAGGGG TAGTAGAAAG TTGCCCAGAG AGCTCCTGTT GGGACGCTGG 6420
 GATCGGTAGA CTACCTGTCT GAAGATGGCA TGGGAATTGG AGCTGATGGT GGGCCTTTGG 6480
 AGGACATTGA AATTGCAGTG GGGCAGCCCC ACTGACGTGT GAACAAAGTC CAAATAAGAT 6540
 GCTTGGAGTT TTTTAACCAA TTCGGCCGTA ACCAGCACGT CCATAGCACA GTAGTCCAAG 6600
 GTGCGTTGCA CAATATCATA GGCACCTGAA TTCTCTTGCA GCCAGAGACT CTTATTGAGA 6660
 AGGTACTCCT CGTCGCTGGA CCAGTAGTCC CTCTGAGGAA AAGAATCTGC GTCGGTTCGG 6720
 TAGGTACCTA ACATGTAAAA TTCATTTACA GCTTTGTAAG GGCAGCAGCC TTTTTCACG 6780
 GGTAAAGCGT AAGCGGCAGC TGCCTTCCTG AGACTCGTGT GCGTGAGAGC AAAGGTATCT 6840
 CGGACCATGA ACTTCACAAA CTGAAATTTA TAGTCTGCTG AGGTGGGAGT GCCTTCCTCC 6900
 CAGTCTTTGA AGTCTTTTCG AGCAGCATGT GTGGGGTTAG GCAGAGCAAA AGTTAAGTCA 6960
 TTGAAAAGAA TCTTGCCACA ACGAGGCATG AAATTTCTAC TGACTTTAAA AGCAGCTGGA 7020
 ATACCTTGTT TGTGTTAAT GACTTGTGCG GCTAGAACAA TCTCATCAAA GCCGTTTATG 7080
 TTGTGCCCTA CGACATAGAC TTCCAAGAAA GTCGGTTGCC CTTTGTAGTTC AAGCGTACAC 7140
 AGTTCCTCGA AAGGAATGTC GCTGGCATGG ACATAGCCCA GTTTGAGGCA GAGGTTTTCT 7200
 AAGCACGGAT TATCTGCCAG GAACTGGCGC CAAAGCAAAG TGCTGGCAGC TTCTTGAAGG 7260
 GCATCCCGAT ACTGTTTAAA CAAGCTGCCT ACTTTGTTTC TTTGCGGGTT GAGGTAGTAG 7320

FIGURE 1E

AAGGTATTTG	CTTGCTTTGG	CCAGCTTGAC	CACTTTTGCT	TTTtagctat	GTAAACAGCC	7380
TGTTTCGCATA	GCTGCGCGTC	ACCAAACAAA	GTAAACACGA	GCATAAAAGG	CATGAGTTGC	7440
TTGCCAAAGC	TACCGTGCCA	AGTGTATGTT	TCCACATCAT	AGACGACAAA	GAGGCGCCGG	7500
GTGTCGGGGT	GAGCGGCCCCA	GGGGAAAAAC	TTTATTTCTT	CCCACCAGTC	CGAAGATTGG	7560
GTGTTTATGT	GGTGAAAGTA	AAAGTCCCGG	CGGCGAGTGC	TGCAGGTGTG	CGTCTGCTTA	7620
AAATACGAAC	CGCAGTCGGC	ACATCGCTGG	ACCTCTGCGA	TGGTGTCTAT	GAGATAGAGC	7680
TTTCTCTTGT	GAATAAGAAA	GTTGAGGGGG	AAGGGAAGGC	GCGGCCTGTC	AGCGCGGGCC	7740
GGGATGCTTG	TAATTTTCAG	CTTCCCCTTG	TATGTTTTGT	AAACGCACAT	ATTTGCGTTG	7800
CAGAACCGGA	CGAGCGTGTC	TTGGAATGAA	AGGATATTTT	CTGGTTTTAA	ATCAAATGGG	7860
CAGTGCTCCA	AGTGCAGTTC	AAAAAGGTTT	CGGAGACTGC	TGGAAACGTC	TGCGTGATAC	7920
TTGACTTCCA	GGGTGGTCCC	GTCTTCAGTC	TGACCGTGCA	GCCGTAGGGT	ACTGCGTTTG	7980
GCGACCAGGG	GCCCCCTTGG	GGCTTTCTTT	AAAGGGGACG	TCGAGGGCCG	AGGGGCGGCC	8040
TTTGCCCTTC	GGGCCTGAGG	GGCGGTAGCT	GGACCGGATC	GTTGAGTTTC	GGCATGGGTT	8100
GCAGCTGTTG	GCGCAGGTCT	GATGCGTGCT	GCACGACTCT	GCGGTTGATT	CTCTGAATCT	8160
CCGGGTGTTG	GGTGAATGCT	ACTGGCCCCG	TCACTTTGAA	CCTGAAAGAG	AGGTCGACAG	8220
AGTTAATAGA	TGCATCGTTA	AGCTCCGCCT	GTCTAATAAT	TTCTTCCACG	TCACCGCTGT	8280
GGTCTCGGTA	AGCAATGTCT	GTCATAAACC	GTTGATCTC	TTCTCGTCC	AGTTCTCCGC	8340
GACCAGCTCG	GTGGACCGTG	GCTGCCAAGT	CCGTGCTAAT	GCGTCGCATG	AGCTGGGAAA	8400
AGGCATTGGT	TCCCGGTTCA	TTCCACACTC	TGCTGTATAT	AACAGCGCCA	TCTTCGTCTC	8460
GGGCTCGCAT	GACCACCTGG	CCCAAGTTTA	GCTCCACGTG	GCGAGCAAAG	ACGGGGCTGA	8520
GGCGGAGGTG	GTGGTGCA	TAATTGAGAG	TGGTGGCTAT	GTGCTCCACG	ATGAAGAAGT	8580
AGATGACCCA	TCTGCGGATG	GTGACTCGT	TAATGTTGCC	CTCTCGCTCC	AGCATGTTTA	8640
TGGCTTCGTA	AAAGTCCACA	GCGAAGTTAA	AAAAC TGCTC	GTTGCGGGCG	GAGACTGTCA	8700
GCTCTTCTTG	CAGGAGACGA	ATGACTTCGG	CTACGGCGGC	GCGGACTTCT	TCGGCAAAGG	8760
AGCGCGGCGG	CACGTCCTCC	TCCTCCTCTT	CTTCCCCCTC	CAGCGGGGGC	ATCTCCAGCT	8820
CTACCGGTTT	CGGGCTGGGG	GACAGGGAAG	GCGGTGCGGG	CCGAACGACC	CGTCGGCGTC	8880
GGGTGGGCAA	GGGGAGACTC	TCTATGAATC	GCTGCACCAT	CTCGCCCCGG	CGTATCCGCA	8940
TCTCCTGGGT	AACGGCACGC	CCGTGTTCTC	GGGGTCGGAG	CTCAAAGCT	CCGCCCCGCA	9000
GTTGCGTCAG	AGGCCGCGCC	GCGGGCTGGG	GCAGGCTGAG	TGCGTCAATA	ACATGCGCCA	9060
CCACTCTCTC	CGTAGAGGCG	GCTGTTTCGA	ACCGAAGAGA	CTGAGCATCC	ACGGGATCGC	9120
TGAAGCGTTG	CACAAAAGCT	TCTAACCAGT	CGCAGTCACA	AGGTAGGCTG	AGCATAGGTG	9180

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FIGURE 1F

AGGCTCGCTC	GGTGTGTTT	CTGTTTGGCG	GCGGGTGGCT	GAGGAGAAAA	TTAAAGTACG	9240
CGCACCAGCAG	GCGCCGGATG	GTTGTCAGTA	TGATGAGATC	CCTGCGACCC	GCTTGTGGA	9300
TTCTGATGCG	GTTTGCAAAG	CCCCAGGCTT	GGTCTTGGCA	TCGCCCAGGT	TCATGCACTG	9360
TTCTTGGAGG	AATCTCTCTA	CGGGCACGTT	GCGGCCTGCG	GGGGGCAGGG	TCAGCCATTT	9420
CGGTGCGTCC	AAACCCACGC	AATGGTTGGA	TGAGAGCCAA	GTCCGCTACT	ACGCGCTCTG	9480
CTAGGACGGC	TTGCTGGATC	TGCCGCAGCG	TTTCATCAA	GTTTTCCAAG	TCAATGAAGC	9540
GGTCGTAGGG	GCCCGCGTTT	ATGGTGTAGG	AGCAGTTTGC	CATGGTGGAC	CAGTCCACAA	9600
TCTGCTGATC	TACCCGCACC	GTTTCTCGGT	ACACCAGTCG	GCTATAGGCT	CGCGTCTCGA	9660
AAACATAGTC	GTTGCAAACG	CGCACCACGT	ATTGGTAGCC	GATTAGGAAG	TGCGGCGGCG	9720
GGTATAAGTA	GAGCGGCCAG	TTTTGCGTGG	CCGGCTGTCT	GGCGCCCAGA	TTCCGTAGCA	9780
TGAGTGTGGG	GTATCGGTAC	ACGTGACGCG	ACATCCAGGA	GATGCCCCGCG	GCCGAAATGG	9840
CGGCCCTGGC	GTAATCCCGG	GCCCCGTTCC	ATATATTCTT	GAGAGGACGA	AAGATTCCAT	9900
GGTGTGCAGG	GTCTGCCCCG	TAAGACGCGC	GCAATCTCTC	GCGCTCTGCA	AAAAACATAC	9960
AGATGAAACA	TTTTTGGGGC	TTTTCAGATG	ATGCATCCCG	CTTTACGGCA	AATGAAGCCC	10020
AGATCCGCGG	CAGTGGCGGG	GGTTCCTGCT	GCGGCCGCCG	GCGCGAGCGT	TGACTCAGGC	10080
GGTACTACCG	CGCCCCCTGG	TGTCGAGTGC	GGCGAGGGGG	AAGGGTTAGC	TCGGCTGTAC	10140
GCGCACCCGG	ACACACACCC	GCGCGTGTGC	GTGAAGCGCG	ATGCGGCGGA	GGCGTACGTT	10200
CCCCGGGAGA	ACTTATTCCG	CGACCCGACG	GGGGAGGAAC	CCGAAGGGAG	CCGAGACCTA	10260
AAGTACAAGG	CCGGTCGGCA	GTTGCGCGCC	GGCATGCCCC	GAAAGCGGGT	GCTGACCGAA	10320
GGGGACTTTG	AGGTGGATGA	GCGCACTGGC	ATCAGCTCAG	CCAAAGCCCA	CATGGAGGCG	10380
GCCGATCTAG	TGCGGGGCTTA	CGAGCAAACG	GTGAAGCAAG	AGGCTAATTT	TCAAAAGTCA	10440
TTTAATAACC	ACGTGCGGAC	ACTGATCTCC	CGCGAGGAGA	CCACCCTGGG	TTTGATGCAC	10500
TTGTGGGACT	TTGCGGAGGC	ATACGCGCAG	AACCCCGGCA	GCAAGACCCT	TACGGCCCAA	10560
GTCTTTCTCA	TCGTGCAGCA	CTTGCAAGAT	GAGGGCATTT	TTGGGGAAGC	TTTCTTAAGC	10620
ATAGCAGAGC	CCGAGGGACG	ATGGATGCTA	GATCTGCTAA	ACATATTGCA	GTCCATTGTG	10680
GTGCAAGAGC	GCCAGCTTTC	GCTATCTGAA	AAGGTAGCCG	CGGTGAACCT	CTCCGTAGTT	10740
ACCCTGGGCA	AACATTATGC	CCGCAAGATC	TTTAAGAGCC	CCTTTGTGCC	GCTTGACAAG	10800
GAGGTGAAGA	TCAGTACATT	TTATATGCGC	GCGGTGCTTA	AGGTCTCTGG	TCTAAGTCAC	10860
GACCTGGGCA	TGTACAGAAA	CGAAAAGGTG	GAGAAGCTAG	CTAGCATAGG	CAGGCGTTCC	10920
GGAGATGAGC	GACGCGGAGC	TGCTGTTCAA	CCTCCGCCGC	GCACTAACCA	CTGGCGATTG	10980

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FIGURE 1G

TGAAGCATTTC	GATGAAGGCG	GGGACTTTAC	CTGGGCTCCG	CCAATCGCG	CGACCGCGG	11040
GGCCGCTTTG	CCGGGGCCCCG	AGTTTGAGAG	TGAAGAGACG	GACGATGAAG	TCGACGAATG	11100
AGTGATGCGG	ACCCCCGTAT	CTTTCAGCTG	GTCAGTCGGC	AAGAGACCGT	AGCCATGGCG	11160
GAAGCGCCCC	GAAGCCTGGG	CCCCGCCCT	TCCAATCCTA	GTTTGAGGC	TTTATTCCAA	11220
AGCCAGCCCCA	GCGCCGAGCA	GGAGTGGCAC	GGCGTGCTGG	AGAGAGTCAT	GGCCCTTAAC	11280
AAAAATGGAG	ACTTTGGCTC	GCAGCCCCAG	GCGAACCGGT	TTGGAGCCAT	CCTCGAAGCC	11340
GTGGTGCCCC	CGCGTCCGA	TCCCACCCAT	GAAAAAGTGC	TAGCTATTGT	GAATGCGCTC	11400
TTGGAGACTC	AGGCCATCCG	TCGCGATGAG	GCCGGACAGA	TGTACACCGC	GCTGTTGCAG	11460
CGGGTGGCCA	GATACAACAG	TGTGAATGTG	CAGGGCAATT	TGGACAGGCT	GATTCAGGAC	11520
GTGAAGGAGG	CTCTGGCGCA	GCGCGAGCGC	ACCGGGCCGG	GGGCCGGCCT	AGGGTCTGTG	11580
GTAGCCTTGA	ATGCCTTCCT	GAGCACACAG	CCAGCGGTGG	TGGAGAGGGG	CCAGGAGAAC	11640
TATGTGGCCT	TTGTGAGCGC	CTTAAAACTC	ATGGTGACCG	AGGCGCCGCA	GTCTGAGGTT	11700
TACCAGGCCG	GACCTAGTTT	CTTTTTTCAA	ACCAGCCGGC	ACGTTTCGCA	GACGGTAAAC	11760
CTCAGTCAGG	CCTTTGATAA	CTTGCGACCC	CTCTGGGGCG	TGCGCGCGCC	AGTACACGAG	11820
CGTACTACCA	TCTCCTCTCT	GCTCACACCA	AACACCCGCT	TGCTCTTGCT	CCTCATTGCG	11880
CCCTTTACGG	ACAGCGTGGG	CATATCCCGG	GACAGTTACC	TGGGGCATCT	GCTGACCCTT	11940
TACCGGGAGA	CCATAGGTAA	CACTCGAGTT	GATGAGACCA	CGTACAACGA	GATCACGGAA	12000
GTGAGTCGGG	CCCTGGGCGC	CGAAGACGCG	TCTAACTTGC	AAGCCACTCT	CAACTACTTA	12060
CTCACAAATA	AGCAGAGCAA	GTTGCCACAG	GAGTTTTCTC	TGAGTCCCGA	AGAGGAGCGG	12120
GTGCTGCGCT	ACGTGCAGCA	ATCTGTCAGT	TTATTTTTTAA	TGCAGGATGG	ACACACGGCC	12180
ACCACTGCTC	TAGATCAGGC	TGCGGCCAAC	ATAGCGCCCT	CGTTTTACGC	GTCCACCGC	12240
GACTTTATAA	ACCGACTGAT	GGACTATTTC	CAGCGAGCTG	CGGCTATGGC	COCTGACTAC	12300
TTTTTTACAGG	CTGTTATGAA	TCCCCACTGG	CTCCCGCCGC	CGGGTTTCTT	TACTCAGGAG	12360
TTTGACTTTC	CGGAGCCCAA	CGGAGGCTTC	CTGTGGGATG	ATTTGGACAG	CGCGCTCCTA	12420
CGCGCGCACG	TAAAAGAAGA	GGAGGATCAA	GGAGCTGTGG	GCGGCACGCC	GGCGGCTTCG	12480
GCGCCCGCGT	CTCGCGCGCA	CACACCACCG	CCGCCGCCCG	GTGCCGCGGA	CCTCTTTGCT	12540
CCTAACGCCT	TCCGCAATGT	GCAAAATAAC	GGCGTGGATG	AACTTATTGA	CGGCTTAAGC	12600
AGATGGAAGA	CTTACGCCCA	GGAGAGGCAG	GAAGTCGTTG	AGCGGCACAG	GCGCAGAGAG	12660
GCGCGTCGCC	GGGCGCGCGA	GGCGCGTCTA	GAGTCGAGCG	ATGATGACGA	CAGCGACCTA	12720
GGGCCGTTTC	TACGGGGCAC	GGGGCACCTC	GTTCAACAAC	AGTTTATGCA	TCTGAAGCCC	12780
CGGGGTCCCC	GCCAGTTTTG	GTAACCGCAC	TGTATTAAAGC	TGTAAGTCCT	CTCATTTGAC	12840

FIGURE 1H

ACTTACCAAA	GCCATGGTCT	TGCTTCGCCT	CTGACACTTT	CTCTCCCCCC	ACACGCGGCA	12900
CCCTACAGCC	TAGGGGCGAT	GCTCCAGCCC	GAAGTGCAGC	CAATTCCGCT	GTCCCCCGGC	12960
CGGCTTATGA	GGCGGTGGTG	GCTGGGGCCT	TCCAGACGCT	TTCTCTTCGA	CGAGATCCAC	13020
GTCCCCCGGC	GATATGCTGC	CGCGTCTGCG	GGGAGAAACA	GTATCCGTTA	TTCCATGCTG	13080
CCCCCGTTGT	ATGACACCAC	GAAGATATAC	CTTATCGACA	ACAAATCTTC	AGACATCCAA	13140
ACTCTGAATT	ACCAAAAACGA	CCACTCAGAT	TACCTCACTA	CCATCGTGCA	GAACAGCGAC	13200
TTCACGCCCC	TGGAGGCTAG	CAACCACAGC	ATCGAGCTAG	ACGAGCGGTC	CCGCTGGGGC	13260
GGAAACCTTA	AAACCATCCT	TTATACAAAC	CTGCCTAATA	TCACCCAGCA	CATGTTTTCT	13320
AACTCTTTTC	GGGTAAAGAT	GATGGCCTCA	AAAAAAGACG	GCGTGCCCCA	GTACGAGTGG	13380
TTCCCCCTAA	GGTGCCCCGA	GGGTAACCTT	TCTGAGACTA	TGGTCATTGA	CCTCATGAAC	13440
AATGCCATCG	TAGAGCTGTA	CTTGGCTTTG	GGGCGCCAGG	AGGGCGTGAA	GGAAGAGGAC	13500
ATCGGGGTAA	AGATCGATAC	GCGCAACTTT	AGTCTGGGCT	ATGACCCGCA	GACCCAGTTA	13560
GTGACGCCCC	GCGTATACAC	CAATGAAGCT	ATGCATGCGG	ACATCGTGTT	GCTGCCGGGC	13620
TGTGCTATAG	ACTTTACGCA	CTCCCGATTA	AACAACCTCT	TGGGCATACG	CAAGCGTTTT	13680
CCGTACCAAG	AGGGCTTCGT	CATCTCCTAT	GAGGACCTTA	AGGGGGGTAA	CATCCCCGCT	13740
TTGATGGACG	TGGAGGAGTT	TAACAAGAGC	AAGACGGTTC	GAGCTTTGCG	GGAGGACCCC	13800
AAGGGGCGCA	GTTATCACGT	GGGCGAAGAC	CCAGAAGCCA	GAGAAAACGA	AACCGCCTAC	13860
CGCAGCTGGT	ACCTGGCTTA	CAATTACGGG	GACCCAGAAA	AAGGGGTGCG	GGCCACCACA	13920
CTGCTGACTA	CCGGCGACGT	GACCTGCGGG	GTGGAACAGA	TCTACTGGAG	CTTGCCGGAC	13980
ATGGCACTGG	ACCCAGTCAC	TTTCAAGGCT	TCGCTGAAAA	CTAGCAATTA	CCCCGTGGTG	14040
GGCACAGAAC	TTTTGCCACT	GGTGCCGCGT	AGCTTTTATA	ACGCTCAGGC	TGTGTACTCA	14100
CAGTGGATAC	AAGAAAAAAC	TAACCAGACC	CACGTTTTCA	ATCGCTTTCC	CGAAAATCAG	14160
ATCTTGGTGC	GGCCCCCTGC	GCCTACCATC	ACGTCCATAA	GTGAAAATAA	GCCCAGCTTG	14220
ACAGATCACG	GAATCGTGCC	GCTCCGGAAC	CGCTTGGGGG	GCGTGCAACG	TGTGACTTTG	14280
ACTGACGCGC	GGCGAAGATC	CTGCCCCCTAC	GTCTACAAGA	GCTTAGGCAT	TGTGACGCCG	14340
CAAGTGCTAT	CTAGCCGCAC	GTTTTAAGCA	GACAGGGGCA	CAGCAGCCGT	TTTTTTTTTT	14400
TTTTTTTCGC	TCCACCAGGG	ACTGTCAGGA	ACATGGCCAT	TCTAATCTCT	CCTAGCAATA	14460
ACACGGGCTG	GGGCCTGGGA	TGCAATAAGA	TGTACGGGGG	CGCTCGCATA	CGTTCAGACT	14520
TGCATCCAGT	GAAGGTGCGG	TCGCATTATC	GGGCCGCTG	GGGCAGCCGC	ACCGGTCGGG	14580
TGGGTCGCCG	CGCAACCGCA	GCTTTAGCCG	ATGCCGTGCG	GGCCACCGGT	GATCCGGTGG	14640

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FIGURE II

CCGACACAAT	CGAGGCGGTG	GTGGCTGACG	CCCGCCAGTA	CCGGCGCCGC	AGACGGCGAG	14700
GGGTGCGCCG	AGTCAGAAAG	TTGCGTCGGA	GCCCCCGCAC	TGCCCTGCAG	CGACGGGTTC	14760
GTAGCGTACG	CCGACAAGTG	GCGAGGGCCC	GCAGGGTGGG	CCGGCGCGCG	GCCGCTATCG	14820
CAGCAGACGC	GGCCATGGCC	ATGGCGGCGC	CAGCTCGGCG	ACGCCGTAAC	ATCTACTGGG	14880
TACGCGATGC	GGCAACCGGA	GCCCGCGTTC	CGGTGACAAC	CCGGCCTACG	GTCAGCAACA	14940
CCGTTTGAAA	TGTCTGCTAC	TTTTTTTTGC	TTCAATAAAA	GCCCCCGGAC	TGATCAGCCA	15000
CACCTTGTC	CGCAGAATTC	TTTCAAACCA	TTGCGCTCTC	AGCGCGCGCG	CCGATAAACC	15060
CACTGTGATG	GCCTCCTCTC	GGTTGATTAA	AGAAGAAATG	TTAGACATCG	TGGCGCCTGA	15120
GATTTACAAG	CGCAAACGGC	CCAGGCGAGA	ACGCGCAGCA	CCGTATGCTG	TGAAGCAGGA	15180
GGAGAAGCCT	TTAGTAAAGG	CGGAGCGCAA	AATTAAGCGC	GGCTCCAGAA	AGCGGGCCTT	15240
GTCAGGCGTT	GACGTTCCCT	TGCCCCGATG	CGGCTTTGAG	GACGACGAGC	CCCACATAGA	15300
ATTTGTGTCT	GCGCCGCGTC	GGCCCTACCA	GTGGAAGGGC	AGGCGGGTGC	GCCGGGTTTT	15360
GCGTCCCGGC	GTGGCCGTTA	GTTTCACGCC	CGGCGCGCGC	TCCCTCCGTC	CGAGTTCCAA	15420
GCGGGTGTAT	GACGAGGTGT	ACGCAGACGA	CGACTTCTTA	GAAGCGGCCG	CGGCCCCGTA	15480
GGGGGAGTTT	GCTTACGGAA	AGCGGGGACG	CGAGGCGGCC	CAGGCCCAGC	TGCTACCGGC	15540
TGTGGCCGTG	CCGGAACCGA	CTTACGTAGT	TTTGATGAG	AGCAACCCCA	CCCCGAGCTA	15600
CAAGCCTGTA	ACCGAGCAGA	AAGTTATTCT	TTCCCGCAAG	CGGGGTGTGG	GGAAGGTAGA	15660
GCCTACCATC	CAGGTTTTAG	CTAGCAAGAA	GCGGCGCATG	GCCGAGAATG	AGGATGACCG	15720
CGGGGCCGGC	TCCGTGGCCG	AAGTGCAGAT	GCGAGAAGTT	AAACCGGTAA	CCGCTGCCTT	15780
GGGTATTGAG	ACCGTGGATG	TTAGCGTGCC	CGACCACAGC	ACTCCCATGG	AGGTCGTGCA	15840
GAGTCTCAGT	CGGGCGGCTC	AAGTAGCTCA	ACGCCTGACC	CAACAACAGG	TGCGGCCTTC	15900
GGCTAAGATT	AAAGTGGAGG	CCATGGATCT	TTCTGCTCCC	GTAGACGCAA	AGCCTCTTGA	15960
CTTAAAACCC	GTGGACGTAA	AGCCGACCCC	GACCTTCGTG	CTTCCCAGCT	TTCGTTCACT	16020
CAGCACCCAA	ACTGACTCTT	TGCCCCGCGC	AGTGGTCGTG	CCGCGCAAGC	CCCGCGTGCA	16080
CCGTGCTACT	AGGCGTACTG	CGCGCGGCTT	GCTGCCCTAT	TACCGCCTGC	ATCCTAGCAT	16140
CACGCCGACA	CCGGGTACC	GAGGATCTGT	CTACACGAGC	TCGGGTGTGC	GCCTGCCCCG	16200
CGTCCGGGCG	CCGCCGTCG	CGCCGTACCC	GCAGGGCGAC	TCCCCGCCTC	AGCGGTGCCG	16260
CGGCCGCGGC	GCTGCTGCCC	GGCGTGCGCT	ATCACCCCTAG	CATCCGCCAA	GCGGCCACAG	16320
TAACCCGGCT	CCGCCGTTAA	GCGCTGTGAA	ACTGCAACAA	CAACAACAAA	AATAAAAAAA	16380
AGTCTCCGCT	CCACTGTGCA	CCGTTGTCCA	TCGGCTAATA	AAGTCCCGCT	TTGTGCGCCG	16440
CAGGAACCAC	TATCCGTAAC	CTGCGAAAAT	GAGTCCCCGC	GGAAATCTGA	CTTACAGACT	16500

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FIGURE 1J

GAGAATACCG	GTCGCCCTCA	GTGGCCGGCG	CCGGCGCCGA	ACAGGCTTGC	GAGGAGGGTC	16560
TGCGTACCTG	CTCGGCCGCC	GCAGAAGGCG	CGCGGGCGGC	GGCCGCCTGC	GCGGGGGCTT	16620
CCTTCCCCTC	CTGGCTCCCA	TCATTGCAGC	CGCCATCGGC	GCAATCCCCG	GCATCGCATC	16680
AGTGGCCATT	CAGGCGGGCC	ACAACAAATA	GGGACAGTGT	AAAGAAAGCT	CAATCTCAAT	16740
AAAACAAACC	GCTCGATGTG	CATAACGCTC	TCGGCCTGCA	ACTTCTGCTG	CTTACGTCTT	16800
TGACCAAAGT	CACTACTGTT	TTCCTTTTAC	CCAGAGCCGG	CGCCAGCCCC	ACACAGCTTG	16860
TTAACACGCC	ATGGACGAAT	ACAATTACGC	GGCTCTTGCT	CCCCGGCAAG	GCTCCCGACC	16920
CATGCTGAGC	CAGTGGTCCG	GCATCGGCAC	GCACGAAATG	CACGGCGGAC	GTTTTAATCT	16980
GGGCAGTTTG	TGGAGCGGGA	TCAGGAATGT	GGGCAGCGCG	TTAAGAACTG	GGGCTCTCGG	17040
GCCTGGCACA	GCAATGCGGG	CAAGCGTTGC	GCGCCCAGCT	GAAAAAGACG	GGCTTGCAAG	17100
AAAAGATATT	GAGGGCGTTA	GCGCCGGTAT	CCACGGAGCC	GTGGATCTGG	GCCGTCAGCA	17160
GCTAGAGAAA	GCTATTGAGC	AGCGCCTAGA	GCGTCGCCCC	ACCGCTGCCG	GTGTGGAAGA	17220
CCTTCCGCTT	CCCCCGGGAA	CAGTCTTAGA	AGCTGATCGT	TTACCGCCCT	CCTACGCCGA	17280
AGCGGTGGCT	GAGCGCCCGC	CGCCGGCTGA	CGTTCCTCTG	CCCGCATCCT	CAAAGCCGCC	17340
GGTGGCGGTG	GTGACCTTGC	CCCCGAAAAA	GAGAGTGTCT	GAAGAGCCTG	TGGAGGAAGT	17400
TGTGATTTCG	TCCTCCGCAC	CGCCGTCTGA	CGACGAGGTT	ATGGCACC GC	AGCCGACTCT	17460
GGTAGCCGAG	CAGGGCGCCA	TGAAAGCAGT	GCCCGTGATT	AAGCCGGCTC	AACCTTTTAC	17520
CCCAGCTGTG	CACGAAACGC	AACGCATAGT	GACCAACTTG	CCAATCACCA	CAGCTGTGAC	17580
ACGGCGACGC	GGGTGGCAGG	GCACTCTGAA	TGACATCGTG	GGCCTCGGCG	TTCGTACCGT	17640
GAAGCGCCGG	CGGTGCTATT	GAGGGGGGCG	GCAGCGGTAA	TAAAGAGAAC	ATAAAAAAGC	17700
AGGATTGTGT	TTTTTGTTTA	GCGGCCACTG	ACTCTCCCTC	TGTGTGACAC	GTCCTCCGCC	17760
AGAGCGTGAT	TGATTGACCG	AGATGGCTAC	CCCGTCGATG	CTGCCGCAAT	GGTCCTACTG	17820
CACATCGCCG	GTCAGGACGC	GTCCGAGTAC	CTGTCCCCCG	GCTTGGTGCA	ATTCCGACAA	17880
GCCACCGAAT	CCTACTTTAA	CATTGGGAAC	AAGTTTAGAA	ACCCACCGT	CGCCCCGACG	17940
CACGATGTCA	CCACGGAGCG	TTCGCAGCGT	CTGCAGCTCC	GCTTCGTGCC	CGTAGACCGG	18000
GAGGACACAC	AGTACTCCTA	CAAAACCCGC	TTCCAGCTAG	CCGTGGGCGA	CAACCGGGTG	18060
CTGGACATGG	CCAGCACGTA	TTTTGACATC	CGCGGTACGC	TGGAGAGGGG	CGCCAGTTTC	18120
AAGCCTTACA	GCGGCACGGC	CTACAACTCC	TTTGCCCCCA	ACAGTGCCCC	TAACAATACG	18180
CAGTTTAGGC	AGGCCAACAA	CGGTCATCCT	GCTCAGACCA	TAGCTCAAGC	TTCTTACGTG	18240
GCTACCATCG	GCGGTGCCAA	CAATGACTTG	CAAATGGGTG	TGGACGAGCG	TCAGCAGCCG	18300

FIGURE 1K

GTGTATGCGA	ACACTACGTA	CCAGCCGGAA	CCTCAGCTCG	GCATTGAAGG	TTGGACAGCT	18360
GGATCCATGG	CGGTCATCGA	TCAAGCAGGC	GGGCGGGTTC	TCAGGAACCC	TACTC AA ACT	18420
CCCTGCTACG	GGTCCTATGC	TAAGCCGACT	AACGAGCACG	GGGGCATTAC	TAAAGCAAAC	18480
ACTCAGGTGG	AGAAAAAGTA	CTACAGAACA	GGGGACAACG	GTAACCCGGA	AACAGTGT TT	18540
TATACTGAAG	AGGCTGACGT	GCTAACGCCC	GACACCCACC	TTGTTACAGC	GGTACCGGCC	18600
GCGGATCGGG	CAAAGGTGGA	GGGGCTATCT	CAGCACGCAG	CTCCCAACAG	GCCGAAC TTT	18660
ATCGGCTTTC	GGGACTGCTT	TGTAGGCTTG	ATGTATTATA	ACAGCGGGGG	CAACCTGGGC	18720
GTCTTAGCGG	GTCAATCCTC	TCAGCTGAAT	GCCGTGGTAG	ACCTGCAAGA	CCGCAACACT	18780
GAGCTTTCCT	ATCAGATGCT	TCTTGCAAAC	ACGACGGACA	GATCCC GCTA	TTT TTAGCATG	18840
TGGAACCAAG	CCATGGACTC	GTACGACCCG	GAGGTCAGGG	TGATAGATAA	CGTGGGCGTA	18900
GAGGACGAGA	TGCCTAATTA	CTGCTTTC CG	TTGTCGGGGG	TTCAGATTGG	AAACCGTAGC	18960
CACGAGGTTC	AAAGAAACCA	ACAACAGTGG	CAAAATGTAG	CTAATAGTGA	CAACAATTAC	19020
ATAGGCAAGG	GGAACCTACC	GGCCATGGAG	ATAAATCTAG	CGGCCAATCT	CTGGCGTTCC	19080
TTTTTGTACA	GTAATGTGGC	GTTGTACTTG	CCAGACAACC	TTAAATTCAC	CCCTCACAAC	19140
ATTCAACTCC	CGCCTAACAC	GAACACCTAC	GAGTACATGA	ACGGGCGAAT	CCCCGTTAGC	19200
GGCCTTATTG	ATACGTACGT	AAATATAGGC	ACGCGGTGGT	CGCCCGATGT	GATGGACAAC	19260
GTGAATCCCT	TTAACCACCA	CCGCAACTCG	GGCCTGCGTT	ACCGCTCCCA	GCTGCTGGGC	19320
AACGGCGGCT	TCTGCGACTT	TCACATTCAG	GTGCCACAAA	AGTTTTTTGC	TATTCGAAAC	19380
CTGCTTCTCC	TGCCCGGCAC	GTACACTTAC	GAGTGGTCC T	TTAGAAAGGA	CGTAAACATG	19440
ATCCTTCAGA	GCACTCTGGG	CAATGATCTG	CGGGTCGATG	GGGCCACTGT	TAATATTACC	19500
AGCGTCAACC	TCTACGCCAG	CTTCTTTCCC	ATGTCACATA	ACACCGCTTC	CACTTTGGAA	19560
GCTATGCTCC	GCAACGACAC	TAATGACCAG	TCTTTTAATG	ACTATCTCTC	GGCGGCTAAC	19620
ATGTTGTATC	CCATTCCGCC	CAATGCCACC	CAACTGCCCA	TCCCCTCAGC	CAACTGGGCA	19680
GCGTTCCGTG	GCTGGAGTCT	CACCCGGCTA	AAACAGAGGG	AGACACCGGC	GCTGGGGTCC	19740
CCGTTCGATC	CCTATTTTAC	CTATTCGGGC	ACCATCCCCT	ACCTGGACGG	CACTTTTTAC	19800
CTCAGCCACA	CCTTTCGCAA	GGTGGCCATC	CAGTTTGACT	CTTCTGTGAC	CTGGCCCGGC	19860
AATGACAGGC	TTTTAACCCC	TAACGAGTTC	GAAATAAAA	TAAGTGTGGA	CGGTGAAGGC	19920
TACAACGTGG	CTCAGAGCAA	TATGACTAAG	GACTGGTTCC	TGGTGCAGAT	GCTAGCGAAT	19980
TACAACATAG	GCTACCAGGG	ATATCACCTG	CCCCCGGACT	ACAAGGACAG	GACATTTTCC	20040
TTCCTGCATA	ACTTCATACC	CATGTGCCGA	CAGGTTCCCA	ACCCAGCAAC	CGAGGGCTAC	20100
TTTGGACTAG	GCATAGTGAA	CCATAGAACA	ACTCCGGCTT	ATTGGTTTCG	ATTCTGCCGC	20160

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FIGURE 1L

GCTCCGCGCG	AGGGCCACCC	CTACCCCCAA	CTGGCCTTAC	CCCCTCATTG	GGACCCACGC	20220
CATGCCCTCC	GTGACCCAGA	GAGAAAGTTT	CTCTGCGACC	GCACCCTCTG	GCGAATCCCC	20280
TTCTCCTCGA	ACTTCATGTC	CATGGGGTCC	CTCACAGATC	TCCGACAGAA	CCTACTGTAT	20340
GCCAATGCCG	CGCATGCCCT	AGACATGACT	TTTGAGATGG	ATCCCATCAA	TGAGCCCCT	20400
CTGCTGTACG	TTCTGTTTGA	GGTGTTTGAC	GTGGCCCGCG	TTCACCAGCC	CCACAGAGGC	20460
GTGATCGAAG	TGGTGTACTT	GAGAACGCCA	TTCTCAGCCG	GCAACGCTAC	CACATAAGTG	20520
CCGGCTTCCC	TCTCAGGCC	CGCGATGGGT	TCTCGGGAAG	AGGAGCTGAG	ATTCATCCTT	20580
CACGATCTCG	GTGTGGGGCC	ATACTTCCTC	GGCACTTTCG	ATAAACACTT	TCCGGGGTTC	20640
ATCTCCAAAG	ACCGAATGAG	CTGTGCCATA	GTCAACACTG	CCGGACGCGA	AACCGGGGGC	20700
GTGCATTGGC	TGGCCATGGC	TTGGCACCCA	GCCTCGCAGA	CCTTTTACAT	GTTTGACCTT	20760
TTCGGTTTCT	CGGATCAAAA	GCTAAAGCAA	ATTTACAAC	TTGAGTATCA	GGGCCTCCTA	20820
AAGCGCAGCG	CCCTGACTTC	CACTGCTGAC	CGCTGCCTGA	CCCTTATTCA	AAGCACTCAA	20880
TCTGTCCAGG	GACCCAACAG	CGCCGCCTGC	GGTCTGTTCT	GCTGCATGTT	CCTCCACGCC	20940
TTTGTCCGCT	GGCCGCTTAG	GGCCATGGAC	AACAATCCCA	CCATGAACCT	CATCCACGGA	21000
GTTCCCAACA	ACATGTTGGA	GAGCCCCAGC	TCCCAAAATG	TGTTTTTGAG	AAACCAGCAA	21060
AATCTGTACC	GTTTCCTAAG	ACGCCACTCC	CCCCATTTTG	TTAAGCATGC	GGCTCAAATT	21120
GAGGCTGACA	CCGCCTTTGA	TAAAATGTTA	ACAAATTAGA	CCGTGAGCCA	TGATTGCAGA	21180
AGCATGTCAT	TTTTTTTTTA	TTGTTTAAAA	TAAAAACAAC	ACATAACATC	TGCCGCCTGT	21240
CCTCCCGTGA	TTTCTTCTGC	TTTATTTGCA	AATGGGGGGC	ACCTTAAAAAC	AAAGAGTCAT	21300
CTGCATCGTA	CTGATCGATG	GGCAGAATAA	CATTCTGATG	CTGGTACTGC	GGGTCCCAGC	21360
GGAATTCGGG	AATGGTAATG	GGGGGGCTCT	GTTTAACCAG	CGCGGACCAC	ATCTGCTTAA	21420
CCAGCTGCAA	GGCTGAAATC	ATATCTGGAG	CCGAAATCTT	GAAATCGCAG	TTTCGCTGGG	21480
CATTAGCCCG	CGTCTGCCGG	TACACAGGGT	TACAGCACTG	AAATACTAAC	ACCGATGGGT	21540
GTTCTACGCT	GGCCAGGAGT	TTGGGATCTT	CTACGAGGCT	CTTATCTACC	GCAGAGCCCC	21600
CGTTGATATT	AAAGGGCGTT	ATCTTGCATA	CCTGACGGCC	TAGGAGGGGC	AATTGGGAGT	21660
GACCCAGTT	ACAATCACAC	TTTAAAGGCA	TAAGCAGATG	AGTTCCGGCA	CTTTGCATCC	21720
TGGGGTAACA	GGCTTTCTGA	AAGGTCATGA	TCTGCCAGAA	AGCCTGCAAA	GCCTTGGGCC	21780
CCTCGCTGAA	AAACATACCA	CAAGACTTTG	AGGTAAAGCT	GCCGGCCGGC	AAAGCGGCGT	21840
CAAAGTGACA	GCAAGCCGCG	TCTTCATTCT	TTAGCTGCAC	TACGTTTATA	TTCCACCGGT	21900
TGGTGGTGAT	CTTTGTCTTA	TGCGGGGTCT	CTTTTAAAGC	CCGCTGCCCC	TTTTCGCTGT	21960

[illegible]

TCACATCCAT	CTCTATCACT	TGGTCTTTGG	TAAGCATAGG	CAGGCCATGC	AGGCAGTGAA	22020
GGGCCCCGTC	TCCCCCTCG	GTACACTGGT	GGCGCCAGAC	CACACAGCCC	GTGGGGCTCC	22080
ACGAGGTCGT	CCCCAGGCCT	GCGACTTTTA	ACACAAAATC	ATACAAGAAG	CGGCCCATAA	22140
TAGTTAGCAC	GGTTTTCTGA	GTACTGAAAG	TAAGAGGCAG	GTACACTTTA	GACTCATTA	22200
GCCAAGCTTG	TGCAACCTTC	CTAAAACACT	CGAGCGTGCC	AGTGTGCGGC	AGCAAGGTTA	22260
AGTTTTTAAT	ATCCACTTTC	AAAGGCACAC	ACAGCCCCAC	TGCTAATTCC	ATGGCCCGCT	22320
GCCAAGCAAC	TTCGTCGGCT	TCCAGCAAGG	CCCGGCTGGC	CGCCGGCAGG	GCGGGAGCGG	22380
CGGCCTCAGC	GGCTGGGGCT	GAAGGTTTGA	AAATCTTGGC	GCGCTTAACG	GCTGTGACAT	22440
CTTCGGCGGG	GGGCTCAGCG	ATCGGCGCGC	GCCGTTTGCG	GCTGACTTTT	TTCCGGGGCG	22500
TCTCATCTAT	CACTAAGGGG	TTCTCGTCCC	CGCTGCTGTC	AGCCGAAGTC	GTGGCTCGCG	22560
TTAAGTCACC	GCTGCGATTC	ATTATTCTCT	CCTAGATAAC	GACAACAAAT	GGCAGAGAAA	22620
GGCAGTGAAA	ATCAGCGGCC	AGAGAACGAC	ACTGAGCTAG	CAGCGGTTTC	AGAAGCCCTA	22680
GGCGCGGCCG	CTTCGGCCCC	CTCACGTAAC	TCCCCGACTG	ACACGGATTC	AGGGGTGGAA	22740
ATGACGCCCA	CCAGCAGCCC	CGAGCCGCCC	GCCGCTCCCC	CAAGTTCGCC	TGCCGCAGCA	22800
CCTGCCCCCTC	AGAAGAACCA	GGAGGAGCTC	TCTTCCCCCG	AGCCCGCGGT	AGCAGCAGCG	22860
GAGCCAGAAG	CCGCTTCGCG	GCCCAGACCA	CCCACACCCA	CCGTTTCAGG	CCCGCGGGAG	22920
CCGAGCGAGG	ATCAACCTGA	CGGACCCGCG	ACGAGGCCTT	CGTACGTGAG	CGAGGATTGC	22980
CTCATCGGCC	ATATCTCTCG	CCAGGCTAAC	ATTGTTAGAG	ACAGCCTGGC	AGACCGCTGG	23040
GAGTTAGAGC	CCACCGTGTC	GGCTCTCTCC	GAGGCTTACG	AAAAGCTCCT	CTTTTGTCCC	23100
AAGGTACCAC	CCAAGAAGCA	AGAGAATGGC	ACTTGCGAAC	CTGAACCTCG	CGTTAATTTT	23160
TTCCCCACCT	TTGTAGTGCC	CGAAACTTTA	GCCACGTAGC	ACATCTTTTT	CCAAAACCAA	23220
AAAATCCCCC	TGTCTTGTCG	CGCCAACCGC	ACCCACACAG	ACACCATCAT	GCACCTCTAC	23280
TCGGGGGACT	CCTTACCGTG	CTTCCCCACG	CTGCAGCTGG	TCAACAAAAT	CTTTGAAGGC	23340
TTGGGCTCAG	AGGAGCGGCG	CGCAGCCAAC	TCGCTGAAAG	ATCAAGAGGA	TAACAGCGCG	23400
TTAGTTGAGC	TGAAGGGGA	CAGTCCCCGA	CTGGCTGTGG	TTAAGCGCAC	ACTGTCTTTG	23460
ACACATTTTC	CCTACCCTGC	CATAACACTA	CCGCCTAAGG	TGATGGCAGC	TGTCACTGGC	23520
AGCCTCATTC	ATGAATCAGC	AGCGACCGCC	GAACCGGAAG	CTGAGGCGCT	GCCAGAAGCC	23580
GAGGAGCCCC	TGGTTAGTGA	CCCTGAACTT	GCTCGCTGGT	TGGGGCTCAA	CTTACAACAG	23640
GAGCCCGAGG	CCACGGCCCA	GGCTTTGGAA	GAAAGACGCA	AGATTATGTT	GGCAGTATGC	23700
TTAGTCACAC	TTCAGCTCGA	GTGCCTGCAC	AAGTTTTTTT	CTTCAGAGGA	TGTCATCAAA	23760
AAGCTGGGAG	AGAGCCTCCA	CTACGCCTTT	CGCCACGGCT	ACGTGCGCCA	AGCCTGCTCC	23820

FIGURE 1N

ATTTCTAACG	TGGAACCTAAC	GAACATCGTC	TCATACCTGG	GTATCTTGCA	CGAAAACCGC	23880
TTGGGACAGA	GTACCCCTACA	CGCCACCCTT	AAAGACGAGA	ACCGCAGAGA	CTACATCAGA	23940
GACACAGTCT	TTCTCTTTCT	GGTTTATACT	TGGCAGACTG	CCATGGGCAT	TTGGCAGCAG	24000
TGCCTCGAGA	CTGAGAACGT	AAAAGAACTT	GAAAAGCTCT	TGCAAAAAAG	CAAGAGGGCT	24060
CTCTGGACGG	GCTTCGACGA	GCTCACCATA	GCTCAAGACC	TAGCTGACAT	AGTGTTCCTC	24120
CCCAAATTCT	TGCACACCTT	GCAAGCCGGC	CTGCCAGACC	TTACATCCCA	GAGTCTCCTT	24180
CACAACTTTC	GCTCCTTCAT	TTTCGAACGC	TCGGGCATTC	TACCCGCCAT	GTGCAATGCA	24240
CTGCCCACCG	ACTTCATCCC	TATCAGCTAC	CGGGAGTGCC	CTCCAACCTT	CTGGGCCTAC	24300
ACCTACCTCT	TTAAACTGGC	CAATTACCTC	ATGTTTCACT	CCGACATCGC	TTACGATCGG	24360
AGCGGCCCCG	GTCTCATGGA	ATGCTACTGT	CGCTGCAACC	TGTGCAGTCC	TCACCGCTGC	24420
TTGGCGACCA	ACCCCGCCCT	GCTCAGCGAG	ACCCAAGTTA	TCGGTACCTT	CGAGATTCAG	24480
GGCCCTCCTG	CTCAAGACGG	ACAGCCGACC	AAACCGCCCC	TCAGGCTGAC	TGCAGGTCTC	24540
TGGACTTCCG	CCTACCTGCG	CAAATTTGTA	CCGCAAGACT	TCAACGCCCA	CAAAATAGCC	24600
TTCTACGAAG	ACCAATCCAA	AAAGCCGAAA	GTGACCCCCA	GCGCTTGTGT	CATCACTGAA	24660
GAAAAAGTTT	TAGCCCAATT	GCATGAAATT	AAAAAAGCGC	GGGAAGACTT	TCCTCTTAAA	24720
AAGGGGCACG	GAGTGTATCT	GGACCCTCAG	ACCGGCGAGG	AGCTGAACGG	ACCCGCACCC	24780
TCCGCAGCTA	GGAATGAAAC	CCCGCAGCAT	GTCGGCAGCC	GGGCCTTCCG	CGGCTCAGGC	24840
TTCGGAGGGC	CAACAGCTGC	CGCCACAGAC	AGCGGGGCTG	CAGCCGAGCA	AGAGGGCTGT	24900
GAGGAAGGTA	GTAGCTTCTC	TGAATCCAC	CGCCGCCCTG	GAAGACATAT	CCGAGGGGGA	24960
GGAAGGCTTC	CCCCTGACGG	ACGAGGAAGA	CGGGGACACC	CTGGAGAGCG	ATTTACAGCA	25020
CTTACGGAC	GAAGACGTGG	AGGAGGAGGA	TATGATTTCT	ATACCCCGCG	ACCAGGGGCA	25080
CTCCGGCGAG	CTCGAGGAGG	GCGAAATTCC	CGCAACGGTA	GCGGCGACGG	CGGTCAAGAA	25140
GGGCCAGGGC	AAGAAGAGTA	GGTGGGACCA	GCAGGTCCGC	TCCACAGCGC	CTCTAAAGGG	25200
CGCTAGAGGT	AAGAGGAGCT	ACAGCTCCTG	GAAACCCCTC	AAGCCCACTA	TCCTTTTCATG	25260
CTTACTGCAG	AGCTCCGGCA	GCACTGCCTT	CACTCGCCGC	TATCTGCTTT	TTCGCCATGG	25320
CGTGTCCGTT	CCCTCCAGGG	TAATTTCATTA	CTATAATTCT	TACTGCAGAC	CCGAAGCTGA	25380
CCAAAACCGC	CACTCAGAGC	AAAAAGAGCC	GCCGGAGTGC	CAGCGCGGCG	CGCCCTCGCC	25440
CTCCTCCTCT	TCCTCCCAAG	CGTGCTCGGG	CGCCCCGCCG	CCCCAAAGGC	CAGCGCCATC	25500
AGGCCGACGA	CGCAAGCACC	GAGGGCCGCG	ACAAGCTTCG	GGAGCTGATC	TTTCCCACTC	25560
TCTATGCCAT	ATTCCAACAA	AGTCGCGCTC	AGCGGTGTCA	CCTCAAAGTG	AAAAATAGAT	25620

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FIGURE 10

CCTTACGTTT ACTGACGCGC AGCTGCCTCT ACCACAACAA GGAGGAACAG CTCCAGCGAA 25680
 CCCTAGCAGA CTCCGAGGCG CTTCTCAGTA AATACTGCTC TGCAGCTCCG ACACGATTCT 25740
 CGCCGCCCTC TTATACCGAG TCTCCCGCCA AGGACGAATC CGGACCCGCC TAAACTCTCA 25800
 GCATGAGCAA AGAAATTCCC ACACCTTATG TTTGGACCTT TCAACCTCAG ATGGGAGCGG 25860
 CCGCAGGTGC CAGTCAAGAT TACTCGACCC GCATGAATTG GTTCAGCGCG GGACCTGATA 25920
 TGATCCACGA CGTTAACAAC ATTCGTGACG CCCAAAACCG CATCCTTATG ACTCAGTCGG 25980
 CCATTACCGC CACTCCCAGG AATCTGATTG ATCCAGACA GTGGGCCGCC CACCTCATCA 26040
 AACAAACCGT GGTGGGCACC ACCCACGTGG AAATGCCTCG CAACGAAGTC CTAGAACAAC 26100
 ATCTGACCTC ACATGGCGCT CAAATCGCGG GCGGAGGCGC TCGGGCGAT TACTTTAAAA 26160
 GCCCCACTTC AGCTCGAACC CTTATCCCGC TCACCGCTC CTGCTTAAGA CCAGATGGAG 26220
 TCTTTCAACT AGGAGGAGGC TCGCGTTCAT CTTTCAACCC CCTGCAAACA GATTTTGCCT 26280
 TCCACGCCCT GCCCTCCAGA CCGCGCCACG GGGGCATAGG ATCCAGGCAG TTTGTAGAGG 26340
 AATTTGTGCC CGCCGTCTAC CTCAACCCCT ACTCGGGACC GCCGGACTCT TATCCGGACC 26400
 AGTTTATACG CCACTACAAC GTGTACAGCA ACTCTGTGAG CGGTTATAGC TGAGATTGTA 26460
 AGACTCTCCT ATCTGTCTCT GTGCTGCTTT TCCGCTCAA GCCCCACAAG CATGAAGGGG 26520
 TTTCTGCTCA TCTTCAGCCT GCTTGTGCAT TGTCCCTAA TTCTATGTTGG GACCATTAGC 26580
 TTCTATGCTG CAAGGCCCGG GTCTGAGCCT AACGCGACTT ATGTTTGTGA CTATGGAAGC 26640
 GAGTCAGATT ACAACCCAC CACGGTTCTG TGGTTGGCTC GAGAGACCGA TGGCTCCTGG 26700
 ATCTCTGTTT TTTTCCGTCA CAACGGCTCC TCAACTGCAG CCCCCGGGT CGTCGCGCAC 26760
 TTTACTGACC ACAACAGCAG CATTGTGGTG CCCCAGTATT ACCTCCTCAA CAACTCACTC 26820
 TCTAAGCTCT GCTGCTCATA CCGGCACAAC GAGCGTCTC AGTTTACCTG CAAACAAGCT 26880
 GACGTCCCTA CCTGTACGA GCCCGGCAAG CCGCTCACC TCCGCTCTC CCCCAGCTG 26940
 GGAAGTGGC ACCAAGCAGT CACTTGGTTT TTTCAAAATG TACCCATAGC TACTGTTTAC 27000
 CGACCTTGGG GCAATGTAAC TTGGTTTTGT CCTCCCTCA TGTGTACCTT TAATGTCAGC 27060
 CTGAACTCCC TACTTATTTA CAACTTTTCT GACAAAACCG GGGGGCAATA CACAGCTCTC 27120
 ATGCACTCCG GACCTGCTTC CCTCTTTCAG CTCTTTAAGC CAACGACTTG TGTACCAAG 27180
 GTGGAGGACC CGCCGTATGC CAACGACCCG GCCTCGCCTG TGTGGCGCCC ACTGCTTTTT 27240
 GCCTTCGTCC TCTGCACCGG CTGCGCGGTG TTGTAAACCG CCTTCGGTCC ATCGATTCTA 27300
 TCCGGTACCC GAAAGCTTAT CTCAGCCCGC TTTTGGAGTC CCGAGCCCTA TACCACCTC 27360
 CACTAACAGT CCCCCATGG AGCCAGACGG AGTTCATGCC GAGCAGCAGT TTATCCTCAA 27420
 TCAGATTTCC TGCGCCAACA CTGCCCTCCA GCGTCAAAGG GAGGAACTAG CTTCCTTGT 27480

FIGURE 1P

CATGTTGCAT	GCCTGTAAGC	GTGGCCTCTT	TTGTCCAGTC	AAAACCTTACA	AGCTCAGCCT	27540
CAACGCCTCG	GCCAGCGAGC	ACAGCCTGCA	CTTTGAAAAA	AGTCCCTCCC	GATTCAACCCT	27600
GGTCAACACT	CACGCCGGAG	CTTCTGTGCG	AGTGGCCCTA	CACCACCAGG	GAGCTTCCGG	27660
CAGCATCCGC	TGTTCTGTGTT	CCCACGCCGA	GTGCCTCCCC	GTCTCTCTCA	AGACCCTCTG	27720
TGCCTTTAAC	TTTTTAGATT	AGCTGAAAGC	AAATATAAAA	TGGTGTGCTT	ACCGTAATTC	27780
TGTTTTGACT	TGTGTGCTTG	ATTTCTCCCC	CTGCGCCGTA	ATCCAGTGCC	CCTCTTCAAA	27840
ACTCTCGTAC	CCTATGCGAT	TCGCATAGGC	ATATTTTCTA	AAAGCTCTGA	AGTCAACATC	27900
ACTCTCAAAC	ACTTCTCCGT	TGTAGGTTAC	TTTCACTCTAC	AGATAAAGTC	ATCCACCGGT	27960
TAACATCATG	AAGAGAAGTG	TGCCCCAGGA	CTTTAATCTT	GTGTATCCGT	ACAAGGCTAA	28020
GAGGCCCAAC	ATCATGCCGC	CCTTTTTTTGA	CCGCAATGGC	TTTGTTGAAA	ACCAAGAAGC	28080
CACGCTAGCC	ATGCTTGTGG	AAAAGCCGCT	CACGTTTCGAC	AAGGAAGGTG	CGCTGACCCT	28140
GGGCGTCGGA	CGCGGCATCC	GCATTAACCC	CGCGGGGCTT	CTGGAGACAA	ACGACCTCGC	28200
GTCCGCTGTC	TTCCCACCGC	TGGCCTCCGA	TGAGGCCGGC	AACGTCACGC	TCAACATGTC	28260
TGACGGGCTA	TATACTAAGG	ACAACAAGCT	AGCTGTCAAA	GTAGGTCCCG	GGCTGTCCCT	28320
CGACTCCAAT	AATGCTCTCC	AGGTCCACAC	AGGCGACGGG	CTCACGGTAA	CCGATGACAA	28380
GGTGTCTCTA	AATACCCAAG	CTCCCCTCTC	GACCACCAGC	GCGGGCCTCT	CCCTACTTCT	28440
GGGTCCCAGC	CTCCACTTAG	GTGAGGAGGA	ACGACTAACA	GTAAACACCG	GAGCGGGCCT	28500
CCAAATTAGC	AATAACGCTC	TGGCCGTAAA	AGTAGGTTCA	GGTATCACCG	TAGATGCTCA	28560
AAACCAGCTC	GCTGCATCCC	TGGGGGACGG	TCTAGAAAGC	AGAGATAATA	AAACTGTCTG	28620
TAAGGCTGGG	CCCGGACTTA	CAATAACTAA	TCAAGCTCTT	ACTGTTGCTA	CCGGGAACGG	28680
CCTTCAGGTC	AACCCGGAAG	GGCAACTGCA	GCTAAACATT	ACTGCCGGTC	AGGGCCTCAA	28740
CTTTGCAAAC	AACAGCCTCG	CCGTGGAGCT	GGGCTCGGGC	CTGCATTTTC	CCCCTGGCCA	28800
AAACCAAGTA	AGCCTTTATC	CCGGAGATGG	AATAGACATC	CGAGATAATA	GGGTGACTGT	28860
GCCCGCTGGG	CCAGGCCTGA	GAATGCTCAA	CCACCAACTT	GCCGTAGCTT	CCGGAGACGG	28920
TTTAGAAGTC	CACAGCGACA	CCCTCCGGTT	AAAGCTCTCC	CACGGCCTGA	CATTTGAAAA	28980
TGGCGCCGTA	CGAGCAAAAC	TAGGACCAGG	ACTTGGCACA	GACGACTCTG	GTCCGGTCCGT	29040
GGTTTCGCACA	GGTCGAGGAC	TTAGAGTTGC	AAACGGCCAA	GTCCAGATCT	TCAGCGGAAG	29100
AGGCACCGCC	ATCGGCACTG	ATAGCAGCCT	CACTCTCAAC	ATCCGGGCGC	CCCTACAATT	29160
TTCTGGACCC	GCCTTGACTG	CTAGTTTGCA	AGGCAGTGGT	CCGATTACTT	ACAACAGCAA	29220
CAATGGCACT	TTCGGTCTCT	CTATAGGCCC	CGGAATGTGG	GTAGACCAAA	ACAGACTTCA	29280

09271212-063401

FIGURE 1Q

GGTAAACCCA GGCCTGGTT TAGTCTTCCA AGGAAACAAC CTTGTCCCAA ACCTTGCGGA 29340
TCCGCTGGCT ATTTCCGACA GCAAAATTAG TCTCAGTCTC GGTCCCGGCC TGACCCAAGC 29400
TTCCAACGCC CTGACTTTAA GTTTAGGAAA CGGGCTTGAA TTCTCCAATC AAGCCGTTGE 29460
TATAAAAGCG GGCCGGGGCT TACGCTTTGA GTCTTCCTCA CAAGCTTTAG AGAGCAGCCT 29520
CACAGTCGGA AATGGCTTAA CGCTTACCGA TACTGTGATC CGCCCCAACC TAGGGGACGG 29580
CCTAGAGGTC AGAGACAATA AAATCATTGT TAAGCTGGGC GCGAATCTTC GTTTTGAAAA 29640
CGGAGCCGTA ACCGCCGGCA CCGTTAACCC TTCTGCGCCC GAGGCACCAC CAACTCTCAC 29700
TGCAGAACCA CCCCTCCGAG CCTCCAACCTC CCATCTTCAA CTGTCCCTAT CGGAGGGCTT 29760
GGTTGTGCAT AACAACGCCC TTGCTCTCCA ACTGGGAGAC GGCATGGAAG TAAATCAGCA 29820
CGGACTTACT TTAAGAGTAG GCTCGGGTTT GCAAATGCGT GACGGCATT TAAACAGTTAC 29880
ACCCAGCGGC ACTCCTATTG AGCCAGACT GACTGCCCA CTGACTCAGA CAGAGAATGG 29940
AATCGGGCTC GCTCTCGGCG CCGGCTTGGA ATTAGACGAG AGCGCGCTCC AAGTAAAGG 30000
TGGGCCCCGC ATGCGCCTGA ACCCTGTAGA AAAGTATGTA ACCCTGCTCC TGGGTCCTGG 30060
CCTTAGTTTT GGGCAGCCGG CCAACAGGAC AAATTATGAT GTGCGCGTTT CTGTGGAGCC 30120
CCCATGGTT TTCGACAGC GTGGTCAGCT CACATTTTAA GTGGGTCACG GACTACACAT 30180
TCAAAATTCC AACTTCAGC TCAATTTGGG ACAAGGCCTC AGAACTGACC CCGTCACCAA 30240
CCAGCTGGAA GTGCCCCCTC GTCAAGGTTT GGAAATTGCA GACGAATCCC AGGTTAGGGT 30300
TAAATTGGGC GATGGCCTGC AGTTTGATTG ACAAGCTCGC ATCACTACCG CTCCTAACAT 30360
GGTCACTGAA ACTCTGTGGA CCGGAACAGG CAGTAATGCT AATGTTACAT GGCGGGGCTA 30420
CACTGCCCCC GGCAGCAAAC TCTTTTGTAG TCTCACTCGG TTCAGCACTG GTCTAGTTTT 30480
AGGAAACATG ACTATTGACA GCAATGCATC CTTTGGGCAA TACATTAACG CGGGACACGA 30540
ACAGATCGAA TGCTTTATAT TGTGAGCAA TCAGGGTAAC CTAAAAGAAG GATCTAACTT 30600
GCAAGGCACT TGGGAAGTGA AGAACAACCC CTCTGCTTCC AAAGCTGCTT TTTTGCCTTC 30660
CACCGCCCTA TACCCCATCC TCAACGAAAG CCGAGGGAGT CTTCCCTGGAA AAAATCTTGT 30720
GGGCATGCAA GCCATACTGG GAGGCGGGGG CACTTGCACT GTGATAGCCA CCCTCAATGG 30780
CAGACGCAGC AACAACTATC CCGCGGGCCA GTCCATAATT TTCGTGTGGC AAGAATTCAA 30840
CACCATAGCC CGCCAACCTC TGAACCACTC TACACTTACT TTTTCTTACT GGAATTAAAT 30900
AAGTTGGAAA TAAAGAGTTA AACTGAATGT TTAAGTGCAA CAGACTTTTA TTGGTTTTGG 30960
CTCACAACAA ATTACAACAG CATAGACAAG TCATACCGGT CAAACAACAC AGGCTCTCGA 31020
AAACGGGCTA ACCGCTCCAA GAATCTGTCA CGCAGACGAG CAAGTCCTAA ATGTTTTTTC 31080
ACTCTCTTCG GGGCCAAGTT CAGCATGTAT CGGATTTTCT GCTTACACCT TTTTAGACAG 31140

FIGURE 1R

CAGTTTACAC TCATTTCCGT TAAAGGATTA CAACTGCGGC ATATGAGAAT TAAGTATATA 31200
 CAACTATTGC CCTTTACCCA CAAACACTCC CCCACGCGG TGCACCTGAT GTAGCTGCCC 31260
 TCCTCAATCA TGAAAGTGCT ATTAAAGTAA ATTAAATGAA CATTATTAC ATACAEGCTT 31320
 CCCACATAGG CCAAAAAAAC AGAGGACAAC TTTGACAGCT CCCGCCTGAA ATACCAATAC 31380
 ACTCTATCAA ACTGCGCACC GTGCACGCAC TGCTTTACCA GGCCTTGAAA GTAAACAGCG 31440
 GCGGACCGAC ACTGCAAGCT TCTAGGCTTT GGGCAGTGGC AGTGAATATA TAGCCACTCC 31500
 TCCCCATGCA CGTAGTAGGA ACGCCGCTTC CCGGGAATCA CAAATGACAA GCAGTAGTCA 31560
 CAGAGGCAAC TAGTCAAGTG AGCGTCTCC TGAGGCATGA TTACCTTCCA TGGAAATGGGC 31620
 CAGTGAATCA TAGTGGCAAA GCCAGCTGCA TCTGGAGCGC TGCGAACCTT GGCTACATGT 31680
 GGTGATTGGC GACGCAGATG GAGACAGGAC CTTGCATTCT GAAGACCACT GCAACAGCTT 31740
 CTGCGTACGC TTGTATTTAC AGTACATAAA AAAGCACTTT TGCCACAGAG CGGTCTTACT 31800
 CAACCGACAG CTTTTTCTT TCTGACGCTG CCTTCTGCTA CTCAGGTAGT ACAAGTCCAA 31860
 AAGAGCCAAA CGGACACTCA AATCCGGGTT ATCTCGATGC TGAAGCCAGA GTCCAAAAGT 31920
 AACCACGCTA AAAGCCTGCA TCCATATTTT GTAACGCTG TAACTCCATC CCAGAGCCGG 31980
 GCACCGCACT TGGTCCACCA TAGCTGCAAA CAAACGGGAC AATTAAGGAA AGTAAAATGA 32040
 GCGCTGGGGG CGGACTCTTC TCCCGTTCGT AGGAAACAGC CACGTATCAA ACACCCTTTT 32100
 CAACACTGGC TCTCCAGCCG CTA CTCTCGTTG AATTAATTG TCCCTGTGCT CAAACAACCC 32160
 ACACTGGTAA CGGTGGTGC TAGGCAAACA TGTCAAATAG CACATAATCA TTTCTTTCAC 32220
 TTTAAGCAAA CATCGACTAG CAGACACTTC ACTTAATTCA GCACAGTCAT AGCAAGGAAT 32280
 GATTATACAC TTGTCACTA ATCCACTGCC CATGTACACA TTGCCCCAGG CAAAAGTGGG 32340
 CAGGGACTTT AAGAGCTGAT TGCTCGCCCC GACATAGTTG GTAAAATACA GCAAATGCAC 32400
 CTTGTTAACA TACACACTCC CCACATAGTA AATATACCGA GTAGACAGCT TAGAAAGCTC 32460
 CCTCCGAAAA AATGGGAACA TGGTATCAAA GGCAGTGCCC GCAACACACA TCTTGAACAG 32520
 ATCCATCAGG ATAGTAGCTC GACACAGCCC CTGCAGACTT TGGTCAGCTT GCTTGCTGCA 32580
 GCAGTACACT CTCCACGTAG CATCTCCGCT GATGAAGTAT TCGCTATCGC AGCGACCAAA 32640
 AATACAGCAA TCACAAGGCA GACGCAACAG TCTTTCATCC AGACTGTTCA TGAGAGGCTT 32700
 TAGAGGTATG GGAAAAATC CAAAGTGCTC AAAATAAGCA GCGCTGGGCT CATTCTGACA 32760
 TTCCCCAAC ATGCTGAGTC GAACCATAGC ACAGTCATAC AAACCTAGCT GTCGGAATTG 32820
 ATCTTCCATG ATTGAGTTTC TACTGAGATA TTATCTCAAA CTTAAACTG TTGCTCACCA 32880
 ACTCTATGCG AACTTGCTCA AGAAGCTCTT GGTTTAGGGC GACCTCTTCT GGTGTCGGA 32940

FIGURE 1S

AGTTACTGAT GGAACAACAA GCGCCGCCCA ACTTCAAATT TCCAGCCGAC CCAATCCAGT 33000
 GGTCTCTCAA CTCACGCGCA CAAGCTACTA TGCAGTCCTC ACTTTCGTCA AAGTCAGCAG 33060
 CGCCTATAGA AATCAACACA CTGAGTCCAC CATCTTCAGC TTTTAAGGGA TAACAGCTGA 33120
 TAGCAAAGTG GTTCTGAGAC CACGGCAAAG CACGTAGGAA TTGCTGTAA GTTAATTTCC 33180
 AAACACCGCT GAAGCAGCTC TATGGTTGCT GGACATATGT CCTCTGCATA GAAGCTTTGA 33240
 ACATAACTTA AGACAGGGCC GGGCACATGA AACACAAACA GAGAACTATA CACAATCTGG 33300
 GCCATGATCA CTCACATTTA AATAGCAGCT GAAAAGTGGC TTTCTTCACT TGGGAGCAAA 33360
 ATTAGCGAAG ACTGTGCCAG AATGCTCACG TCGAAAGGCG GTGGGTCTCG CAGAGGCAGG 33420
 TTCGGAGCTC TAATTAAACA CAGGTGGGTA ATCCAGTCAA CGATGAGGAC CAGCTGAAAA 33480
 GTGGCTTTCT TCACTTGGGA GCAAAATTAG CGAAGACTGT GCCAGAATGC TCACGTCGAA 33540
 AGGCGGTGGG TCTCGCAGAG GCAGGTTCCG AGCTCTAATT AAACACAGGT GGGTAATCCA 33600
 GTCAACGATG AGGACTTTTA AAAAAGTGTG TAAAGTGA GAGTTAAGT TAGAGGCAGA 33660
 CACAGAAAAA ACTACAGTTA AACTATCAGT TGCTGAAATT GAAAAGCACC CAATAATTAT 33720
 GCGCGAGGGC ACAGGCAATA AAAGTGTTAG CCCCTCGGCT AACGCGTCAG CTAAAAATC 33780
 TTTAGCTAAA GTATCTACTG GCCGCGTGGT AAAAGTTTGA ATATAATTTA CGACAGGAGC 33840
 TGGCAAGTGA AACTCCACAA AAAAAGTAAA TGGCTGCACA CACGCCATTA TTTTGAAAAAT 33900
 AAGAAGTACT CACAAAATCA GCTGGAGCTG CCGCAAGTGA AAAAGACCAG CTGAAGTCTT 33960
 ATTTTAAACT GTAAAATATA AAAAAAAAAA TAGGGCGTGA ACAAAAATGA GAAAATAATA 34020
 CCGGATATGA CTATTAAGGG CGTACACTGA AACTGGGTAA TATTTGAGAA AAAGATTAG 34080
 ATAATAGCTG AACAAATGTT GTGTGCAGAA CACGGAAGAA TGGTGGCGAA AAAAAAAAAAC 34140
 AGTGTAAGCA CATGGCGCGC ACGTACTTCC GTGAGAAAAA TTAAAAAAT TTACCCAGTA 34200
 TAAGGTGCGT CATTAGACCC GCCTTGTTGGC GCGGTTGTAG CCCTGCCCTT TGCCCCGCCC 34260
 CGCGCGCGC CCCGCGCGCC GCGCGCGCGC CCCTCAGCCC CGCCCAGCGC CGCCGCTCC 34320
 GCGACGCGCT CCGCCCCACA GTTACGTCAG CACGCCACGC TCGCCGTCGT TCGTCATAA 34380
 ATGACGTGGC AAAAATGATT GGCAGTTGGA CCGCTGCCAT CAGTGTACTG TAGATTATTG 34440
 ATGATG 34446

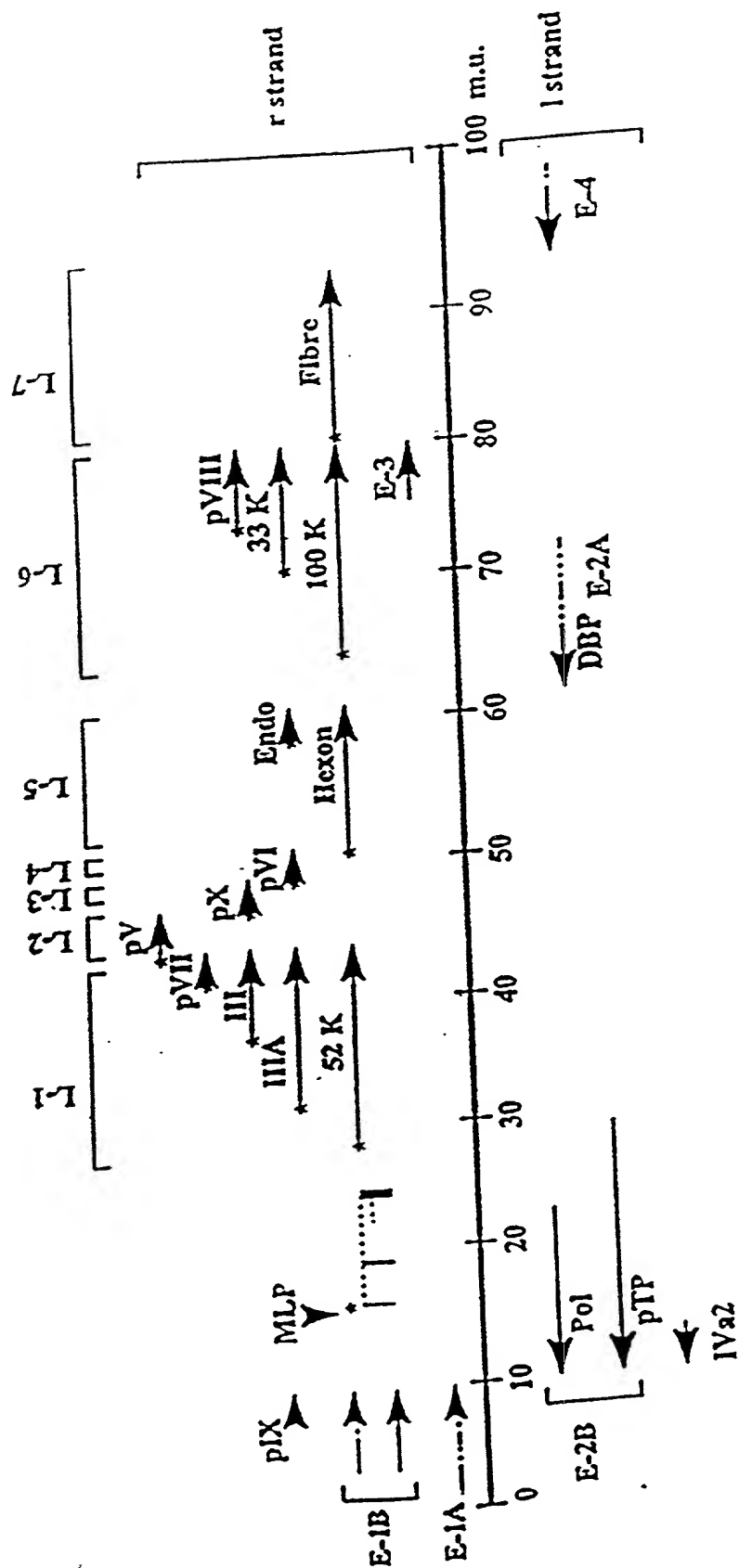
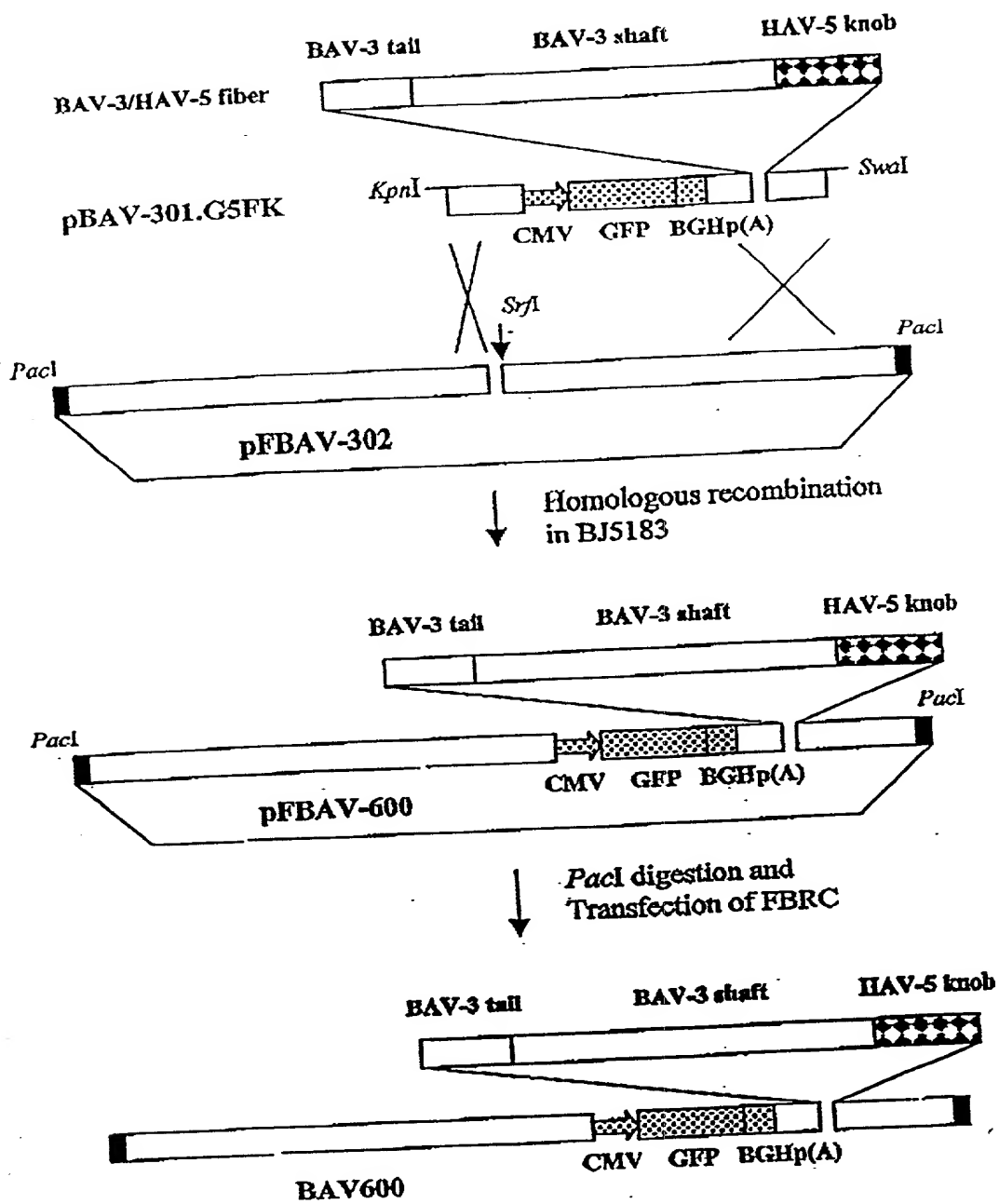


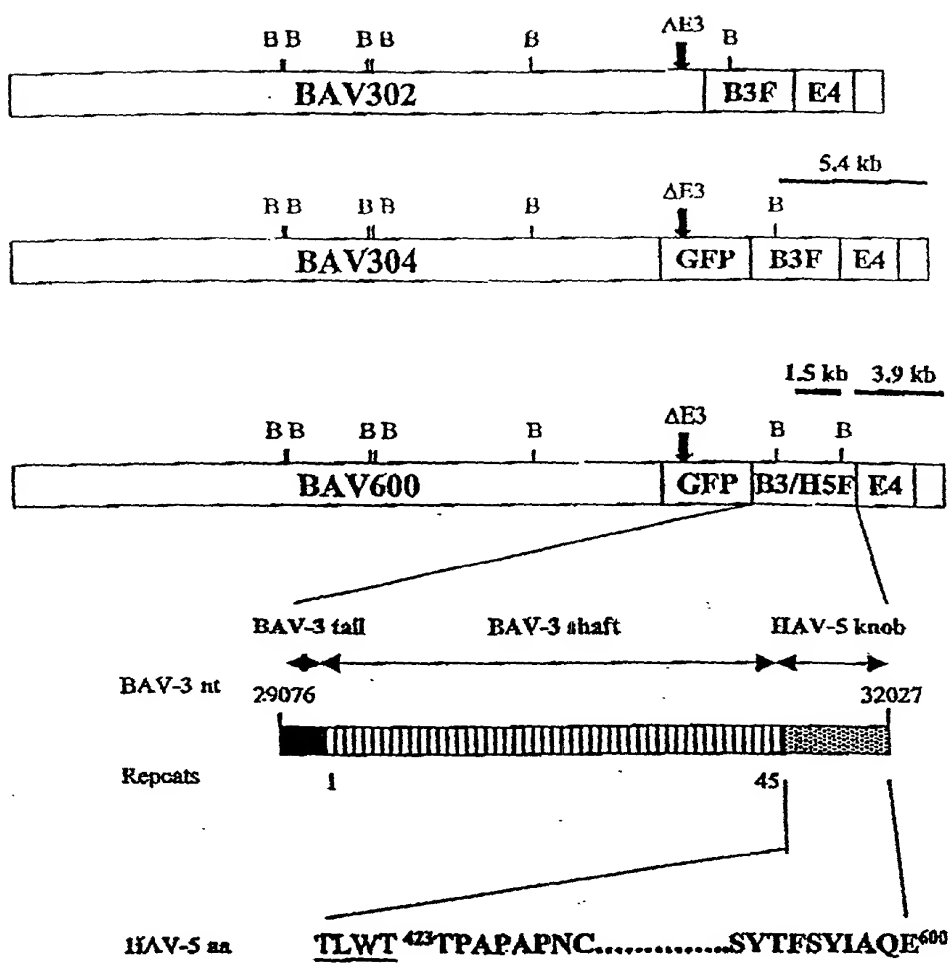
FIGURE 2



Construction of BAV600

FIGURE 3

09871912-054104
T01650-27372850



Characterization of BAV600

FIGURE 4

Analysis of BAV600 by Restriction Enzyme *Bgl*II Digestion

1 2 3 1 2 3

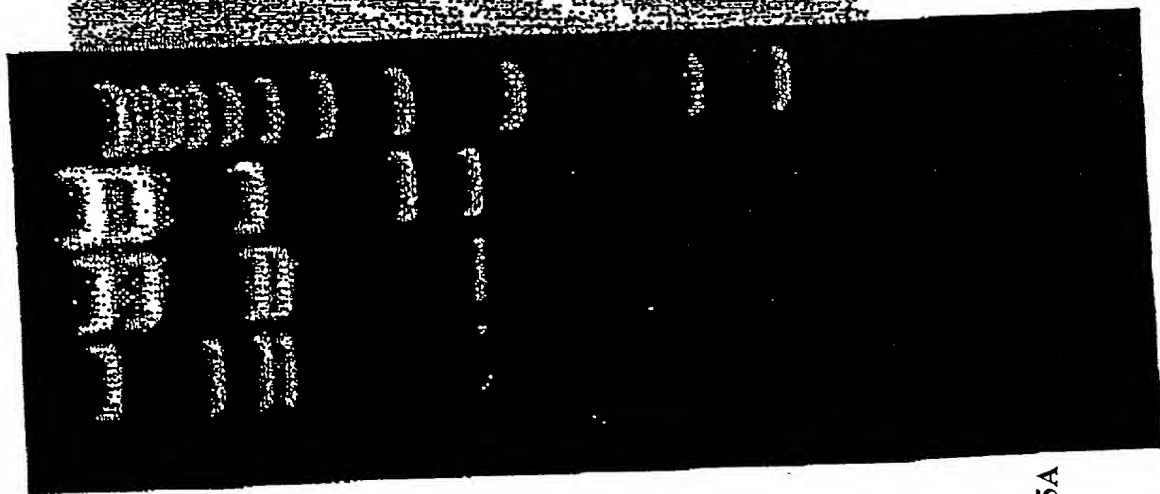
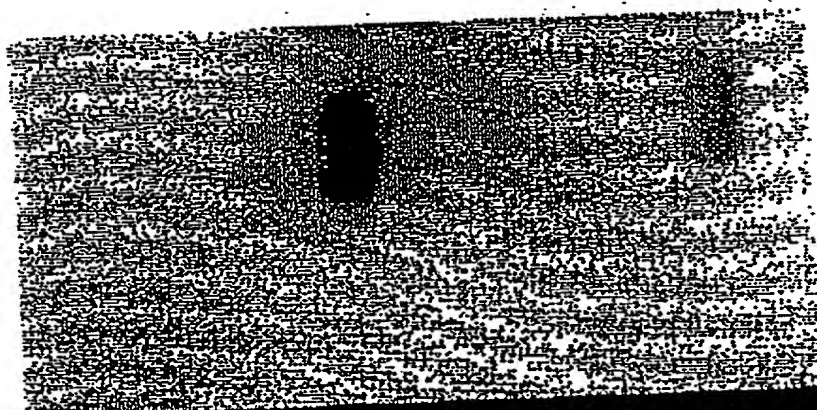


FIG. 5A



Lane 1. BAV302
2. BAV304
3. BAV600

FIG. 5B

Expression of HAV-5 Fiber Knob by BAV600

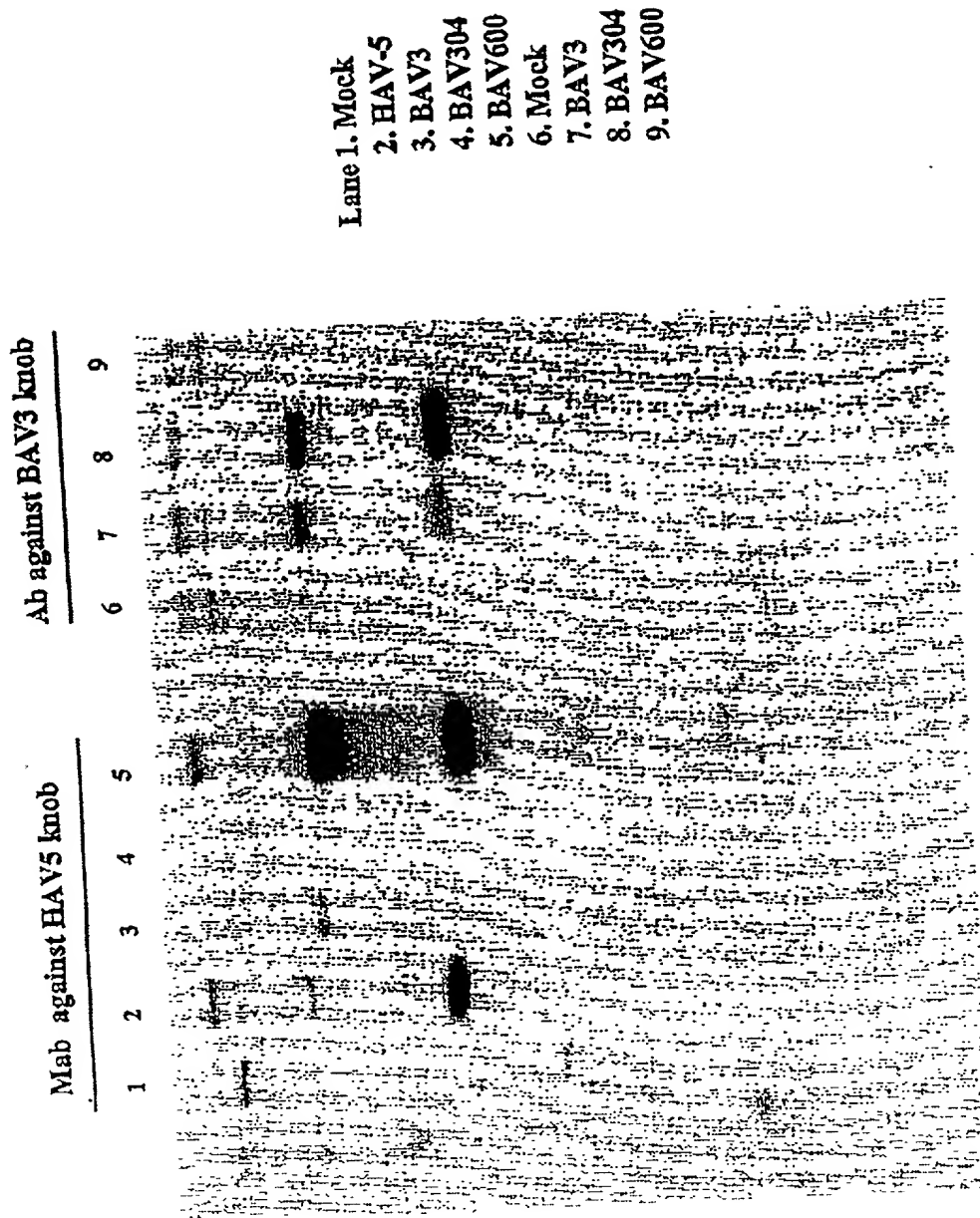
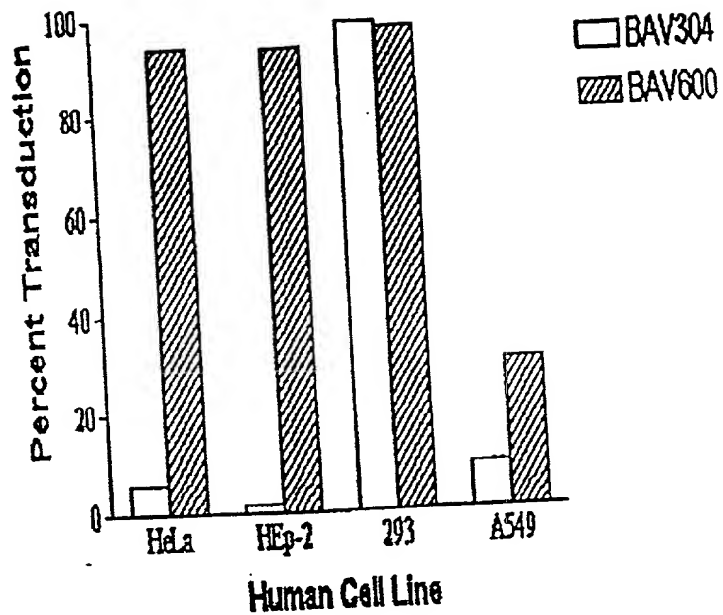
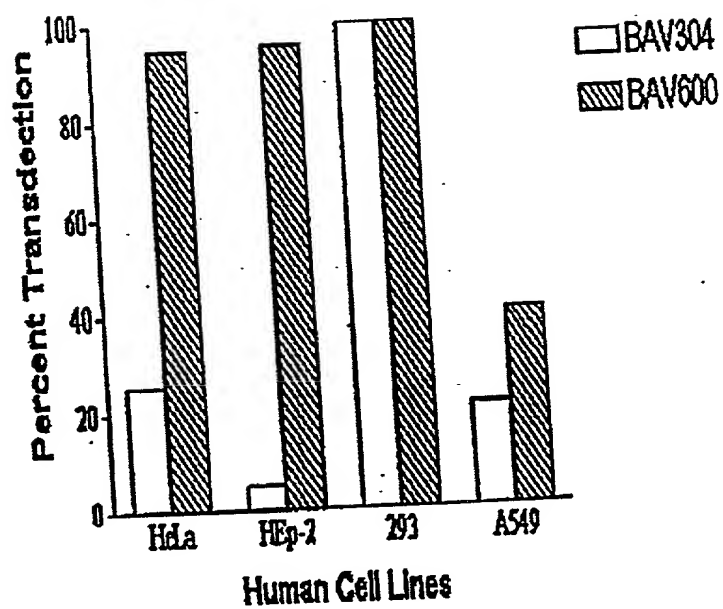


FIGURE 6

7A.



7B.



Transduction of Human Cell Lines by BAV600.
A. MOI of 1. B. MOI of 5.

FIGURE 7A-7B

FACS Analysis of BAV304 and BAV600 Transduction of Human Cells

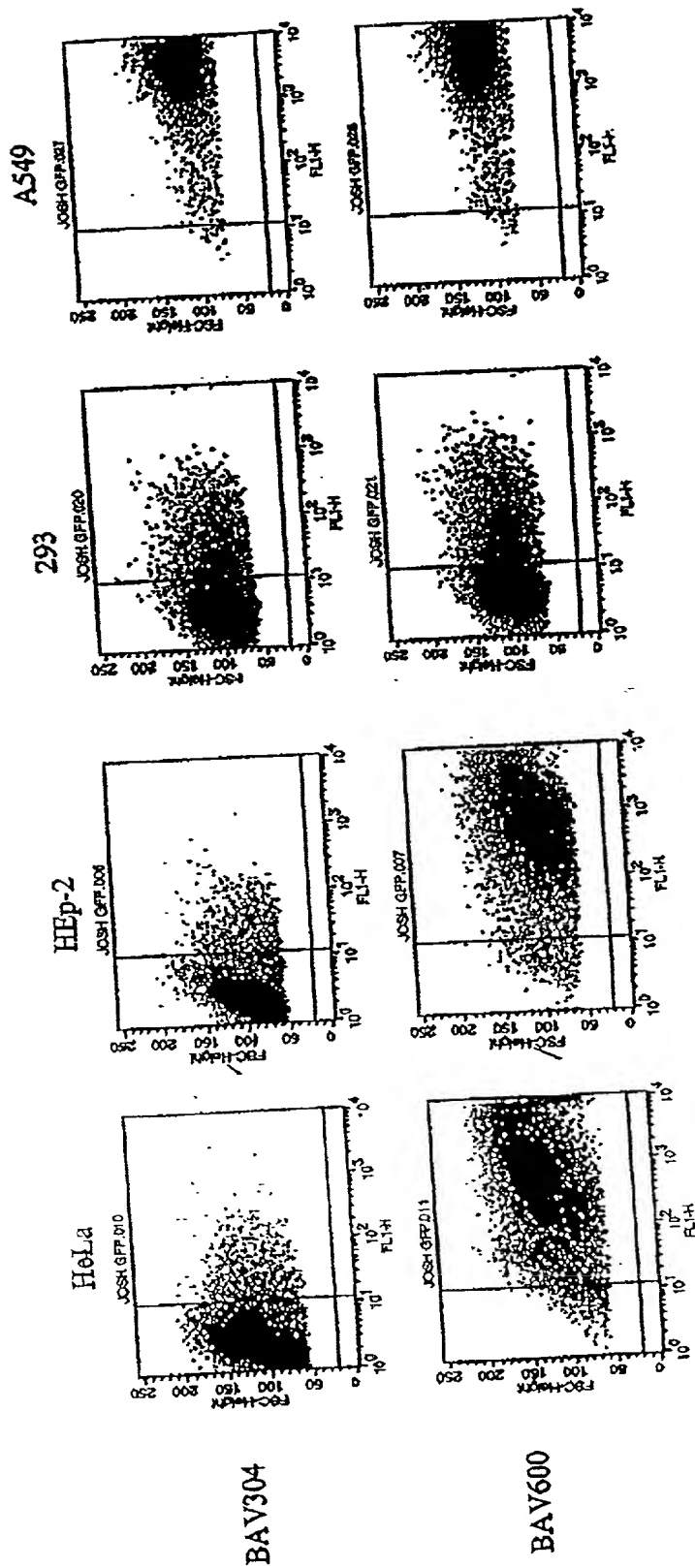


FIGURE 8

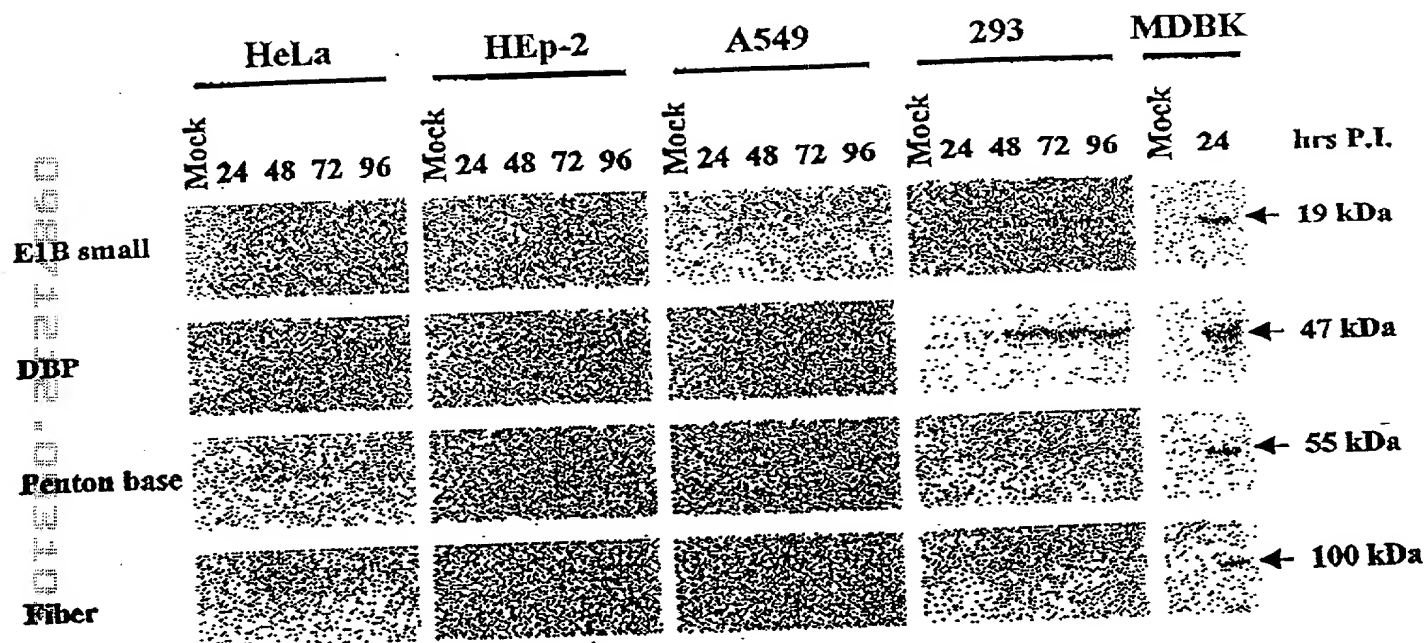


FIGURE 9

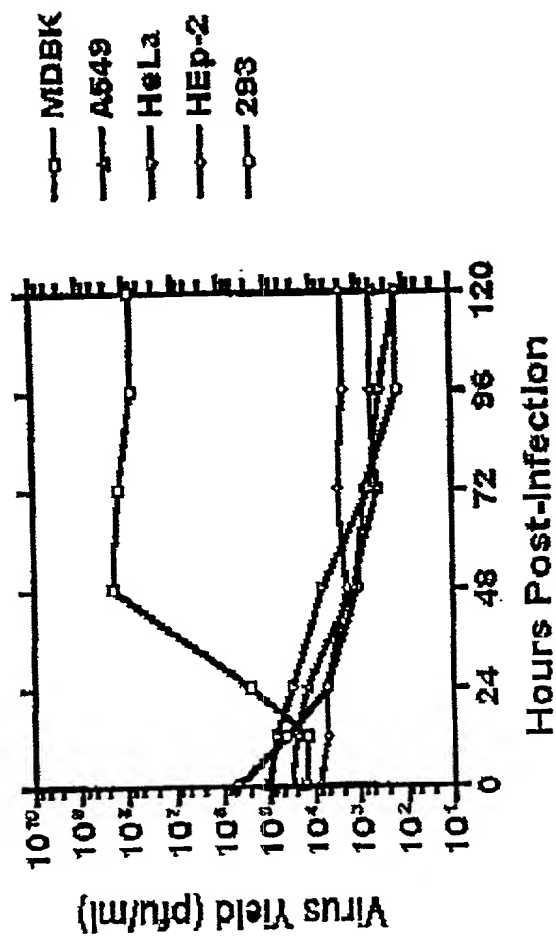


FIGURE 10

	BAV-3	Virus	BAV600
Normal Rabbit Serum	<1:50		<1:50
Rabbit Antiserum against BAV3 FK	1:800		<1:50
Monoclonal Ab against BHV gD (2C8)	<1:50		<1:50
Monoclonal Ab against FAd5 FK (1D6.14)	<1:50		1:3,200

FIGURE 11

093712-053104
FOI# 272850

10 20 30 40
MSVSSCSCPSAPTIFMLLOMKRARPSEDTFNPVYPYDTET 40
GPPTVPFLTTPPFVSPNGFQESPPGVLSLRLSEPLVTSNGM 80
LALKMGNGLSLDEAGNLTSQNVTTVSPPLKKTksNINLEI 120
SAPLTVTSEALTVA AAAAPLMVAGNTLTMSQAPLTVHDSK 160
LSIATQGPLTVSEGKLALOTSGPLTTTDSSTLTITASPL 200
210 220 230 240
TTATGSLGIDLKEPIYTQNGKLGLKYGAPLHVTDDLNTLT 240
VATGPGVTINNTSLOTKVTGALGFDSQGNMQLNVAGGLRI 280
DSQNRRLILDVSYPFDAQNQLNLR LGQGPLFINSAHNLDI 320
NYNKGLYLFTASNNSKKLEVNLS TAKGLMFDATAIAINAG 360
DGLEFGSPNAPNTNPLKTKIGHGLEFDSNKAMVPKLG TGL 400
410 420 430 440
SFDSTGAITVGKNNDKLT LWTPAPSPNCRLNAEKDAKL 440
TLVLTKCGSQILATVSVLAVKGS LAPISGTVQSAHLIIRF 480
DENGVLNNSFLDPEYWFRNGDLTEGTAYTNAVGFMPNL 520
SAYPKSHGKTAKSNIVSQVYLN GDKTKPVTLTITLNGTQE 560
TGDTTPSAYSMSFSWDWSGHNYINEIFATSSYTFSYIAQE 600

FIGURE 12

10 20 30 40
 MKRSVPQDFNLVYPYKAKRPNIMPPFFDRNGFVENQEATL 40
 AMLVEKPLTFDKEGALT LGVGRGIRINPAGLLETNDLASA 80
 VFPPLASDEAGNVTLNMSDGLYTKDNKLAVKVGPGLSLDS 120
 NNALQVHTGDGLTVTDDKVS LNTQAPLSTTSAGLSLLLGP 160
 SLHLGEEERLTVNTGAGLQISNNALAVKVGSGITVDAQNQ 200
 210 220 230 240
 LAASLGDGLESRDNKT VVKAGPGLTITNQALTVATGNGLO 240
 VNPEGQLQLNITAGQGLNFANNSLAVELGSGLHFPPGQNO 280
 VSLYPGDGIDIRDNRVTVPAGPGLRMLNHQLAVASGDGLE 320
 VHSDTLRLKLSHGLTFENGAVRAKLGPGGLGTDDSGRSVVR 360
 TGRGLRVANGQVQIFSGRGT AIGTDSSLTLNIRAPLOFSG 400
 410 420 430 440
 PALTASLQSGPITYNSNNGTFGLSIGPGMWVDQNRLOVN 440
 PGAGLVFQGNNLVPNLADPLAISDSKISLSLGPGLTQASN 480
 ALTLSLGNGLFESNQAVAIKAGRGLRFESSSQALESSLTV 520
 GNGLTLTDTVIRPNLGDGLEVRDNKIIVKLGANLRFENGA 560
 VTAGTVNPSAPEAPPTLTAEPLRASNSHLQLSLSEGLVV 600
 610 620 630 640
 HNNALALQLGDGMEVNQHGLTLRVGSGLQMRDGILTVTPS 640
 GTPIEPRLTAPLTOTENGIGLALGAGLELDESALQVKVGP 680
 GMRLNPVEKYVTL LLGPGLSFGQPANRTNYDVRVSVEPPM 720
 VFGQRGQLTFLVGHGLHIQNSKLQLNLGQGLRTDPVTNQL 760
 EVPLGQGLEIADESQVRVKLGDGLOFDSQARITTAPNMVT 800
 810 820 830 840
 ETLWTGTGSNANVTWRGYTAPGSKLFLSLTRFSTGLVLGN 840
 MTIDSNASFGQYINAGHEQIECFILLDNQGNLKEGSNLOG 880
 TWEVKNNPSASKAAFLPSTALYPILNESRGS LPGKNLVGM 920
 QAILGGGGTCTVIATLNGRRSNNYPAGQSIIFVWQEFNTI 960
 ARQPLNHSTLTFSYWT 976

FIGURE 13

10 20 30 40
 MKRARWDPVYPFSEERLVPLPPFIEAGKGLKSEGLILSLN 40
 FTDPITINQTGFLT VKLGDGIFINGEGGLSSTAPKVKVPL 80
 TVSDETLQLLLSNSLTTESDSLALKOPQLPLKINDEGSLV 120
 LNLNTPNLQNERLSLNVSNPLKIAADSLTINLKEPLGLQ 160
 NESLGLNLSOPMNITPEGNLGIKLNPMKVEESSLALNYK 200
 210 220 230 240
 NPLAISNDALSINIANPLTVNTSGSLGISYSTPLRISNNA 240
 LSLFIGKPLGLGTDGSLTVNLTRPLVCRONTLAINYSAPL 280
 VSLQDNLTLSYAQPLTVSDNSRLSLNSPLNTNSDGKLSV 320
 NYSNPLVVTDNLTL SVKKPVMINNTGNVDLSFTAPIKLN 360
 DAEQLTLETTEPLEVADNALKLKLKGKGLTVSNNALTLNLG 400
 410 420 430 440
 NGLTFQQGLLOIKTNSSLGFNASGELSTATKQGTITVNFL 440
 STTPIAFGWQIIPTTVAFIYILSGTQFTPQSPVTS LGFQP 480
 PQDFLDFFVLSPFVTSVTQIVGNDVKVIGLTISKNOSTIT 520
 MKFTSPLAENVPVSMFTA HQFRQ. 544

FIGURE 14

10 20 30 40
 MKRTRRALPANYDPVYPYDAPGSSTQPPFFNNKQGLTESP 40
 PGT LAVNVSPPLTFSTLGAIKLSTGPGLTLNEGKLOASLG 80
 PGLITNTEGQITVENVNKVLSTSPHLKNENTVSLALGDG 120
 LEDENGTLKVTFTPTPPPLQFSPPLTKTGGTVSLPLQDSM 160
 QVTNGKLGVKPTTYAPPLKKTDQQVSLQVGSGGLTVINEQL 200
 210 220 230 240
 QAVQPPATTYNEPLSKTDNSVSLQVGAGLAVQSGALVATP 240
 PPPLTFTSPLEKNENTVSLQVGAGLSVQNNALVATPPPPL 280
 TFAYPLVKNDNHVALSAGSGLRISGGSLTVATGPGLSHQN 320
 GTIGAVVGAGLKFENNAILAKLGNGLTIRDGAIEATOPPA 360
 APITLWTGPGPSINGFINDTPVIRCFICLTRDSNLVTVNA 400
 410 420 430 440
 SFVGEGGYRIVSPTQSQFSLIMEFDQFGQLMSTGNINSTT 440
 TWGEKPWGNNTVQPRPSHTWKLCMPNREVYSTPAATISRC 480
 GLDSIAVDGAPSRSIDCMLIINKPKG VATYTTLTFRFLNFN 520
 RLSGGTLFKTDVLTFTYVGENQ 542

FIGURE 16

	M	K	R	S	R	X	X	X	P	X	P	X	D	P	X	X	L	Y	P	X	P	X	X	X	P	Q	X	D	X	F	Majority
	10										20										30										
1	M	S	V	S	S	C	S	C	P	S	A	P	T	I	F	M	L	L	Q	M	K	R	A	R	P	S	E	D	T	F	HAd5F.PRO
1	M	K	R	S	V	P	Q	D	F	N	L	V	Y	P	Y	K	A	K	R	P	N	I	M	P	P	F	F	D	R	N	BAV3F.pro
1	M	G	P	K	K	Q	K	R	E	L	P	E	D	F	D	P	V	Y	P	Y	D	V	P	Q	L	Q	I	N	P	P	PAV3F.pro
1	M	K	R	T	R	R	A	L	P	A	N	Y	D	P	V	Y	P	Y	D	A	P	G	S	S	T	Q	P	P	F	F	CAV2F.pro
1	M	K	R	A	R	W	D	P	V	Y	P	F	S	E	E	R	L	V	P	L	P	P	F	I	E	A	G	K	G	L	OAd287.PRO
	N	X	V	G	X	X	X	X	X	X	X	X	V	X	X	X	L	T	P	P	F	L	X	X	X	L	G	X	X	Majority	
	40										50										60										
31	N	P	V	Y	P	Y	D	T	E	T	G	P	P	T	V	P	F	L	T	P	P	F	V	S	P	N	G	F	Q	E	HAd5F.PRO
31	G	F	V	E	N	Q	E	A	T	L	A	M	L	V	E	K	P	L	T	F	D	K	E	G	A	L	T	L	G	V	BAV3F.pro
31	F	V	S	G	D	G	F	N	Q	S	V	D	G	V	L	S	L	H	I	A	P	P	L	V	F	D	N	T	R	A	PAV3F.pro
31	N	N	K	Q	G	L	T	E	S	P	P	G	T	L	A	V	N	V	S	P	P	L	T	F	S	T	L	G	A	I	CAV2F.pro
31	K	S	E	G	L	I	L	S	L	N	F	T	D	P	I	T	I	N	Q	T	G	F	L	T	V	K	L	G	D	G	OAd287.PRO
61	X	X	X	X	G	X	G	G	L	L	L	E	G	K	X	X	X	V	X	X	X	G	L	X	L	T	T	X	L	X	Majority
	70										80										90										
61	S	P	P	G	V	L	S	L	R	L	S	E	P	L	V	T	S	N	G	M	L	A	L	K	M	G	N	G	L	S	HAd5F.PRO
61	G	R	G	I	R	I	N	P	A	G	L	L	E	T	N	D	L	A	S	A	V	F	P	P	L	A	S	D	E	A	BAV3F.pro
61	L	T	L	A	F	G	G	L	Q	L	S	G	K	Q	L	V	V	A	T	E	G	S	G	L	T	T	N	P	D	PAV3F.pro	
61	K	L	S	T	G	P	G	L	T	L	N	E	G	K	L	Q	A	S	L	G	P	G	L	I	T	N	T	E	G	Q	CAV2F.pro
61	I	F	I	N	G	E	G	L	S	S	T	A	P	K	V	K	V	P	L	T	V	S	D	E	T	L	Q	L	L	OAd287.PRO	
	G	X	V	X	L	N	X	K	S	X	S	X	T	T	X	X	P	X	L	X	K	T	G	S	G	L	S	L	D	X	Majority
	100										110										120										
91	L	D	E	A	G	N	L	T	S	Q	N	V	T	T	V	S	P	P	L	K	K	T	K	S	N	I	N	L	E	I	HAd5F.PRO
91	G	N	V	T	L	N	M	S	D	G	L	Y	T	K	D	N	K	L	A	V	K	V	G	P	G	L	S	L	D	S	BAV3F.pro
91	G	K	L	V	L	K	V	K	S	P	I	T	L	T	A	E	G	I	S	L	S	L	G	P	G	L	S	N	S	E	PAV3F.pro
91	I	T	V	E	N	V	N	K	V	L	S	F	T	S	P	L	H	K	N	E	N	T	V	S	L	A	L	G	D	G	CAV2F.pro
91	L	S	N	S	L	T	T	E	S	D	S	L	A	L	K	Q	P	Q	L	P	L	K	I	N	D	E	G	S	L	V	OAd287.PRO
	L	N	L	L	T	V	T	T	X	X	L	X	X	X	X	A	P	L	X	P	L	X	X	A	L	X	S	T	T	Majority	
	130										140										150										
121	S	A	P	L	T	V	T	S	E	A	L	T	V	A	A	A	A	P	L	M	V	A	G	N	T	L	T	M	Q	S	HAd5F.PRO
121	N	N	A	L	Q	V	H	T	G	D	G	L	T	V	T	D	D	K	V	S	L	N	T	Q	A	P	L	S	T	T	BAV3F.pro
121	T	G	L	S	L	Q	V	T	A	P	L	Q	F	Q	G	N	A	L	T	L	P	L	A	A	G	L	Q	N	T	D	PAV3F.pro
121	L	E	D	E	N	G	T	L	K	V	T	F	P	T	P	P	P	P	L	Q	F	S	P	P	L	T	K	T	G	G	CAV2F.pro
121	L	N	L	N	T	P	L	N	L	Q	N	E	R	L	S	L	N	V	S	N	P	L	K	I	A	A	D	S	L	T	OAd287.PRO

FIGURE 17A

	X A X L X L L G S X L X T L G X X X V T V X N G X P X L Q X																										Majority				
	160													170										180							
151	Q	A	P	L	T	V	H	D	S	K	L	S	I	A	T	Q	G	P	L	T	V	S	E	G	K	L	A	L	Q	T	HAd5F.PRO
151	S	A	G	L	S	L	L	L	G	P	S	L	H	L	G	E	E	E	R	L	T	V	N	T	G	A	G	L	Q	I	BAV3F.pro
151	G	G	M	G	V	K	L	G	S	G	L	T	T	D	N	S	Q	A	V	T	V	Q	V	G	N	G	L	Q	L	N	PAV3F.pro
151	T	V	S	L	P	L	Q	D	S	M	Q	V	T	N	G	K	L	G	V	K	P	T	T	Y	A	P	P	L	K	K	CAV2F.pro
151	I	N	L	K	E	P	L	G	L	Q	N	E	S	L	G	L	N	L	S	D	P	M	N	I	T	P	E	G	N	L	OAd287.PRO
	G X X L L T V X V G S G L T V A S X X L X A A X X S N G X X																										Majority				
	190													200										210							
181	S	G	P	L	T	T	T	D	S	S	T	L	T	I	T	A	S	P	P	L	T	T	A	T	G	S	L	G	I	D	HAd5F.PRO
181	S	N	N	A	L	A	V	K	V	G	S	G	I	T	V	D	A	Q	N	Q	L	A	A	S	L	G	D	G	L	E	BAV3F.pro
181	G	E	G	Q	L	T	V	P	A	T	A	P	L	V	S	G	S	A	G	I	S	F	N	Y	S	S	N	D	F	V	PAV3F.pro
181	T	D	Q	Q	V	S	L	Q	V	G	S	G	L	T	V	I	N	E	Q	L	Q	A	V	Q	P	P	A	T	T	Y	CAV2F.pro
181	G	I	K	L	K	N	P	M	K	V	E	E	S	S	L	A	L	N	Y	K	N	P	L	A	I	S	N	D	A	L	OAd287.PRO
	L X N X S X T L N X K X G L V X G X L A S T X D T L S X L X																										Majority				
	220													230										240							
211	L	K	E	P	I	Y	T	Q	N	G	K	L	G	L	K	Y	G	A	P	L	H	V	T	D	D	L	N	T	L	T	HAd5F.PRO
211	S	R	D	N	K	T	V	V	K	A	G	P	G	L	T	I	T	N	Q	A	L	T	V	A	T	G	N	G	L	Q	BAV3F.pro
211	L	D	N	D	S	L	S	L	R	P	K	A	I	S	V	T	P	P	L	Q	S	T	E	D	T	I	S	L	N	Y	PAV3F.pro
211	N	E	P	L	S	K	T	D	N	S	V	S	L	Q	V	G	A	G	L	A	V	Q	S	G	A	L	V	A	T	P	CAV2F.pro
211	S	I	N	I	A	N	P	L	T	V	N	T	S	G	S	L	G	I	S	Y	S	T	P	L	R	I	S	N	N	A	OAd287.PRO
	V N P F X G X X L N L T X X Q T L X X X X L X X L V X X N N																										Majority				
	250													260										270							
241	V	A	T	G	P	G	V	T	I	N	N	T	S	L	Q	T	K	V	T	G	A	L	G	F	D	S	Q	G	N	M	HAd5F.PRO
241	V	N	P	E	G	Q	L	Q	L	N	I	T	A	G	Q	G	L	N	F	A	N	N	S	L	A	V	E	L	G	S	BAV3F.pro
241	S	N	D	F	S	V	D	N	G	A	L	T	L	A	P	T	F	K	P	Y	T	L	W	T	G	A	S	P	T	A	PAV3F.pro
241	P	P	P	L	T	F	T	S	P	L	E	K	N	E	N	T	V	S	L	Q	V	G	A	G	L	S	V	Q	N	N	CAV2F.pro
241	L	S	L	F	I	G	K	P	L	G	L	G	T	D	G	S	L	T	V	N	L	T	R	P	L	V	C	R	Q	N	OAd287.PRO
	X L X X T P G X P L V S L Y P L L X L D V X X P L X A S X A																										Majority				
	280													290										300							
271	Q	L	N	V	A	G	G	L	R	I	D	S	Q	N	R	R	L	I	L	D	V	S	Y	P	F	D	A	Q	N	Q	HAd5F.PRO
271	G	L	H	F	P	P	G	Q	N	Q	V	S	L	Y	P	G	D	G	I	D	I	R	D	N	R	V	T	V	P	A	BAV3F.pro
271	N	V	I	L	T	N	T	T	T	P	N	G	T	F	F	L	C	L	T	R	V	G	G	L	V	L	G	S	F	A	PAV3F.pro
271	A	L	V	A	T	P	P	P	P	L	T	F	A	Y	P	L	V	K	N	D	N	H	V	A	L	S	A	G	S	G	CAV2F.pro
271	T	L	A	I	N	Y	S	A	P	L	V	S	L	Q	D	N	L	T	L	S	Y	A	Q	P	L	T	V	S	D	N	OAd287.PRO

FIGURE 17B

	L	X	X	L	X	G	L	X	P	L	X	T	N	S	X	G	X	L	D	X	N	Y	S	X	X	L	V	L	T	X	Majority
	310										320										330										
301	L	N	L	R	L	G	Q	G	P	L	F	I	N	S	A	H	N	L	D	I	N	Y	N	K	G	L	Y	L	F	T	HAd5F.PRO
301	G	P	G	L	R	M	L	N	H	Q	L	A	V	A	S	G	D	G	L	E	V	H	S	D	T	L	R	L	K	L	BAV3F.pro
301	L	K	S	S	I	D	L	T	S	M	T	K	K	V	N	F	I	F	D	G	A	G	R	L	Q	S	D	S	T	Y	PAV3F.pro
301	L	R	I	S	G	G	S	L	T	V	A	T	G	P	G	L	S	H	Q	N	G	T	I	G	A	V	V	G	A	G	CAV2F.pro
301	S	L	R	L	S	L	N	S	P	L	N	T	N	S	D	G	K	L	S	V	N	Y	S	N	P	L	V	V	T	D	OAd287.PRO
	340										350										360										
	S	X	X	X	X	F	X	X	X	A	V	L	I	N	X	T	G	X	X	D	X	A	X	X	A	X	I	X	X	X	Majority
	340										350										360										
331	A	S	N	N	S	K	K	L	E	V	N	L	S	T	A	K	G	L	M	F	D	A	T	A	I	A	I	N	A	G	HAd5F.PRO
331	S	H	G	L	T	F	E	N	G	A	V	R	A	K	L	G	P	G	L	G	T	D	D	S	G	R	S	V	V	R	BAV3F.pro
331	K	G	R	F	G	F	R	S	N	D	S	V	I	E	P	T	A	A	G	L	S	P	A	W	L	M	P	S	T	F	PAV3F.pro
331	L	K	F	E	N	N	A	I	L	A	K	L	G	N	G	L	T	I	R	D	G	A	I	E	A	T	Q	P	P	A	CAV2F.pro
331	S	N	L	T	L	S	V	K	K	P	V	M	I	N	N	T	G	N	V	D	L	S	F	T	A	P	I	K	L	N	OAd287.PRO
	370										380										390										
	D	G	X	X	L	T	S	G	N	G	P	X	X	N	V	X	I	N	X	T	X	V	G	L	D	F	X	L	T	T	Majority
	370										380										390										
361	D	G	L	E	F	G	S	P	N	A	P	N	T	N	P	L	K	T	K	I	G	H	G	L	E	F	D	S	N	K	HAd5F.PRO
361	T	G	R	G	L	R	V	A	N	G	Q	V	Q	I	F	S	G	R	G	T	A	I	G	T	D	S	S	L	T	L	BAV3F.pro
361	I	Y	P	R	N	T	S	G	S	S	L	T	S	F	V	Y	I	N	Q	T	Y	V	H	V	D	I	K	V	N	T	PAV3F.pro
361	A	P	I	T	L	W	T	G	P	G	P	S	I	N	G	F	I	N	D	T	P	V	I	R	C	F	I	C	L	T	CAV2F.pro
361	D	A	E	Q	L	T	L	E	T	T	E	P	L	E	V	A	D	N	A	L	K	L	K	L	G	K	G	L	T	V	OAd287.PRO
	400										410										420										
	X	X	X	A	L	L	X	X	X	G	S	F	L	T	X	G	X	X	X	G	S	K	T	N	S	S	L	X	L	Majority	
	400										410										420										
391	A	M	V	P	K	L	G	T	G	L	S	F	D	S	T	G	A	I	T	V	G	N	K	N	N	D	K	L	T	L	HAd5F.PRO
391	N	I	R	A	P	L	Q	F	S	G	P	A	L	T	A	S	L	Q	G	S	G	P	I	T	Y	N	S	N	N	G	BAV3F.pro
391	L	S	T	N	G	Y	S	L	E	F	N	F	Q	N	M	S	F	S	A	P	F	S	T	S	Y	G	T	F	C	Y	PAV3F.pro
391	R	D	S	N	L	V	T	V	N	A	S	F	V	G	E	G	Y	R	I	V	S	P	T	Q	S	Q	F	S	L	CAV2F.pro	
391	S	N	N	A	L	T	L	N	L	G	N	G	L	T	F	Q	Q	G	L	L	Q	I	K	T	N	S	S	L	G	F	OAd287.PRO
	430										440										450										
	X	X	X	X	X	X	S	P	X	X	X	X	X	N	X	X	X	X	L	T	L	X	X	L	X	F	G	X	N	Majority	
	430										440										450										
421	W	T	T	P	A	P	S	P	N	C	R	L	N	A	E	K	D	A	K	L	T	L	V	L	T	K	C	G	S	Q	HAd5F.PRO
421	T	F	G	L	S	I	G	P	G	M	W	V	D	Q	N	R	L	Q	V	N	P	G	A	G	L	V	F	Q	G	N	BAV3F.pro
421	V	P	R	R	T	T	H	R	P	R	H	G	P	F	S	L	R	E	R	R	H	L	F	Q	L	L	Q	Q			PAV3F.pro
421	I	M	E	F	D	Q	F	G	Q	L	M	S	T	G	N	I	N	S	T	T	T	W	G	E	K	P	W	G	N	N	CAV2F.pro
421	N	A	S	G	E	L	S	T	A	T	K	Q	G	T	I	T	V	N	F	L	S	T	T	P	I	A	F	G	W	Q	OAd287.PRO

FIGURE 17C

	I L X T X X A X X X K L S X X X I S X X S X P A X L I X R X	Majority
	460 470 480	
451	I L A T V S V L A V K G S L A P I S G T V Q S A H L I I R F	HAd5F.PRO
451	N L V P N L A D P L A I S D S K I S L S L G P G L T Q A S N	BAV3F.pro
448		PAV3F.pro
451	T V Q P R P S H T W K L C M P N R E V Y S T P A A T I S R C	CAV2F.pro
451	I I P T T V A F I Y I L S G T Q F T P Q S P V T S L G F Q P	OAd287.PRO
	X L D X X L X N G L X X X X X X V X X I X G X X X X V X X Y	Majority
	490 500 510	
481	D E N G V L L N N S F L D P E Y W N F R N G D L T E G T A Y	HAd5F.PRO
481	A L T L S L G N G L E F S N Q A V A I K A G R G L R F E S S	BAV3F.pro
448		PAV3F.pro
481	G L D S I A V D G A P S R S I D C M L I I N K P K G V A T Y	CAV2F.pro
481	P Q D F L D F F V L S P F V T S V T Q I V G N D V K V I G L	OAd287.PRO
	T X A X X F S X X X X X X X X X L X K T X X X N X X X X X E	Majority
	520 530 540	
511	T N A V G F M P N L S A Y P K S H G K T A K S N I V S Q V Y	HAd5F.PRO
511	S Q A L E S S L T V G N G L T L T D T V I R P N L G D G L E	BAV3F.pro
448		PAV3F.pro
511	T L T F R F L N F N R L S G G T L F K T D V L T F T Y V G E	CAV2F.pro
511	T I S K N Q S T I T M K F T S P L A E N V P V S M F T A H Q	OAd287.PRO
	X R - - - - -	Majority
	550 560 570	
541	L N G D K T K P V T L T I T L N G T Q E T G D T T P S A Y S	HAd5F.PRO
541	V R D N K I I V K L G A N L R F E N G A V T A G T V N P S A	BAV3F.pro
448		PAV3F.pro
541	N Q	CAV2F.pro
541	F R Q .	OAd287.PRO
	- - - - -	Majority
	580 590 600	
571	M S F S W D W S G H N Y I N E I F A T S S Y T F S Y I A Q E	HAd5F.PRO
571	P E A P P T L T A E P P L R A S N S H L Q L S L S E G L V V	BAV3F.pro
448		PAV3F.pro
542		CAV2F.pro
544		OAd287.PRO

FIGURE 17 D

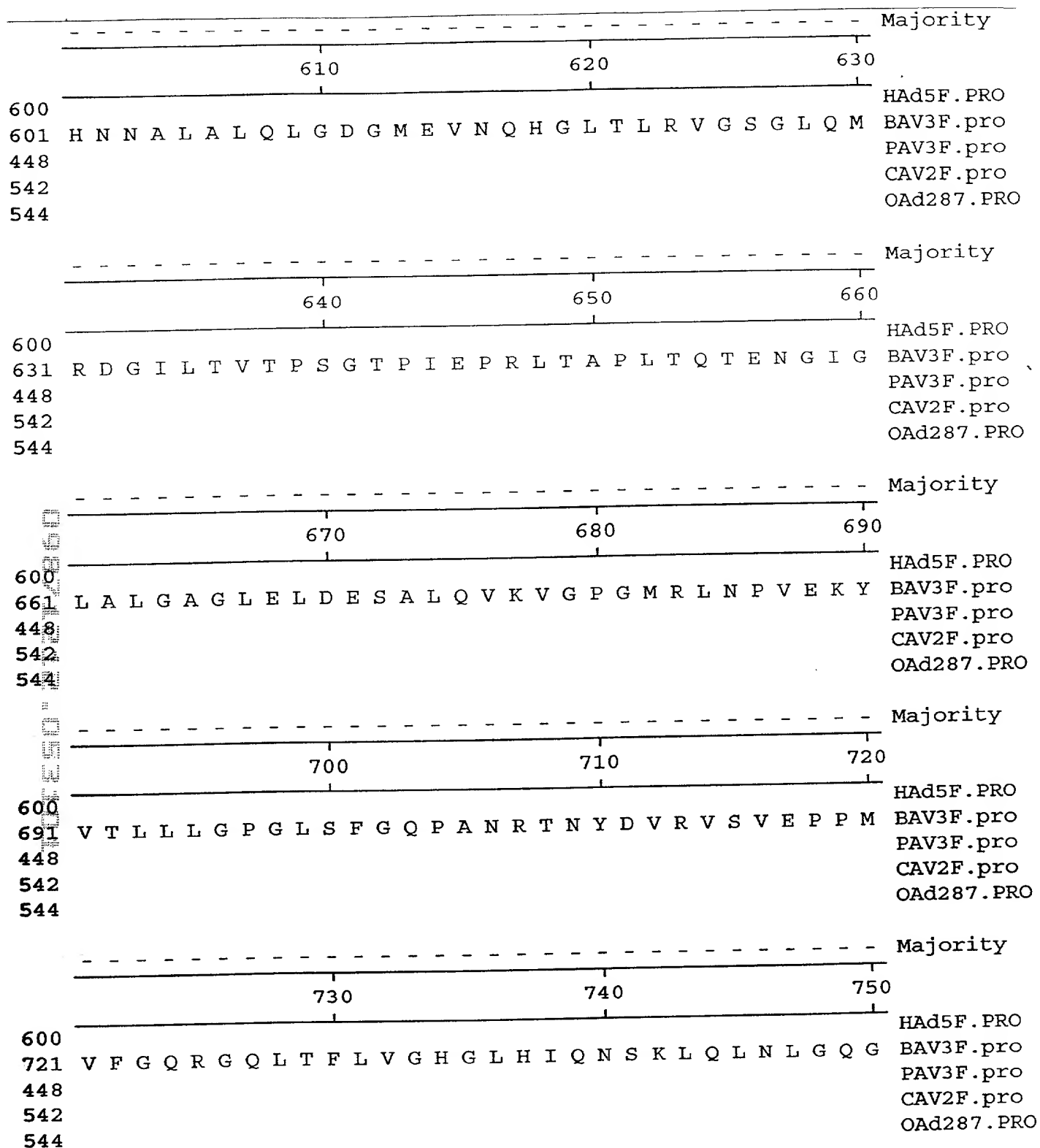


FIGURE 17E

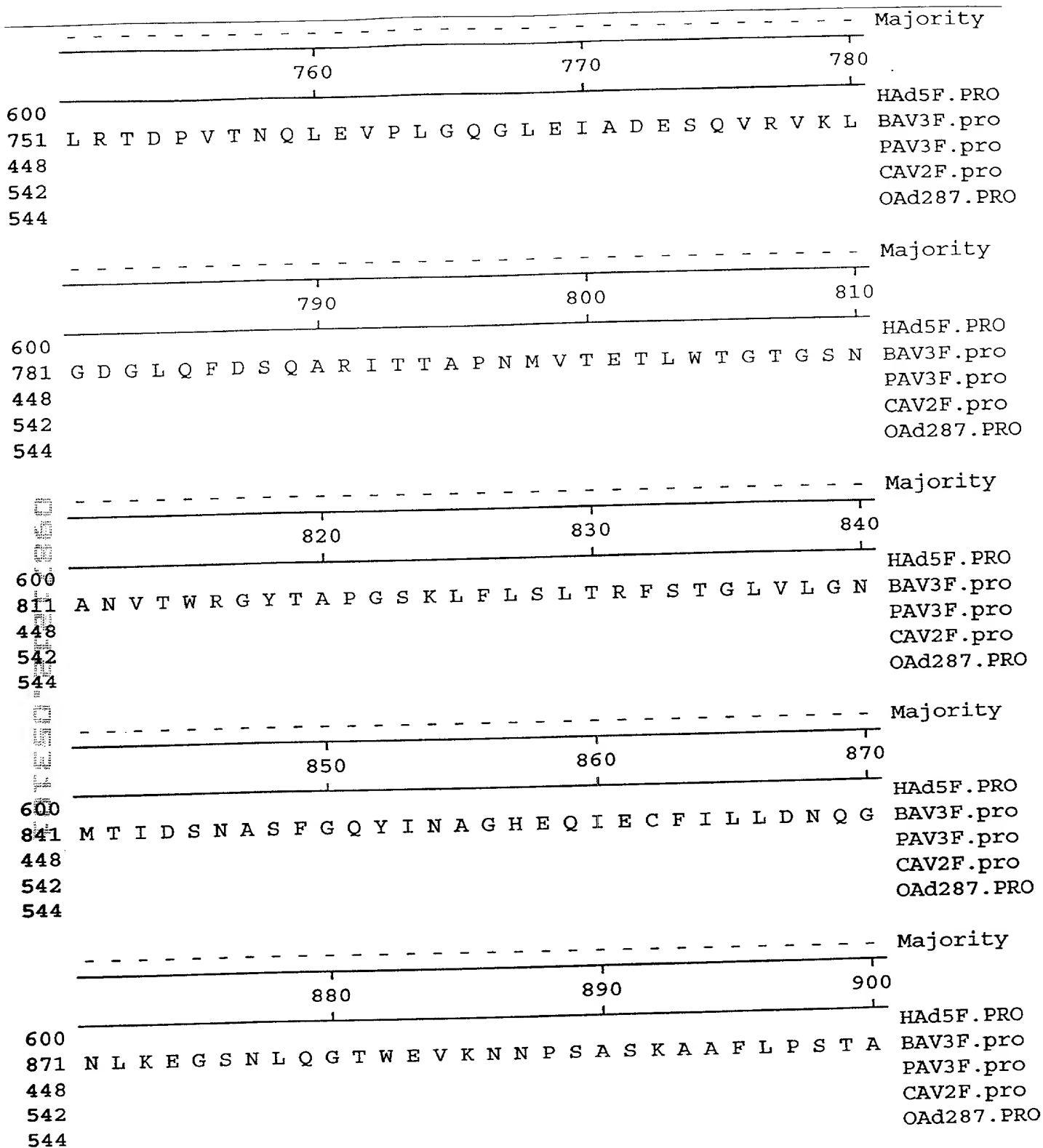


FIGURE 17F

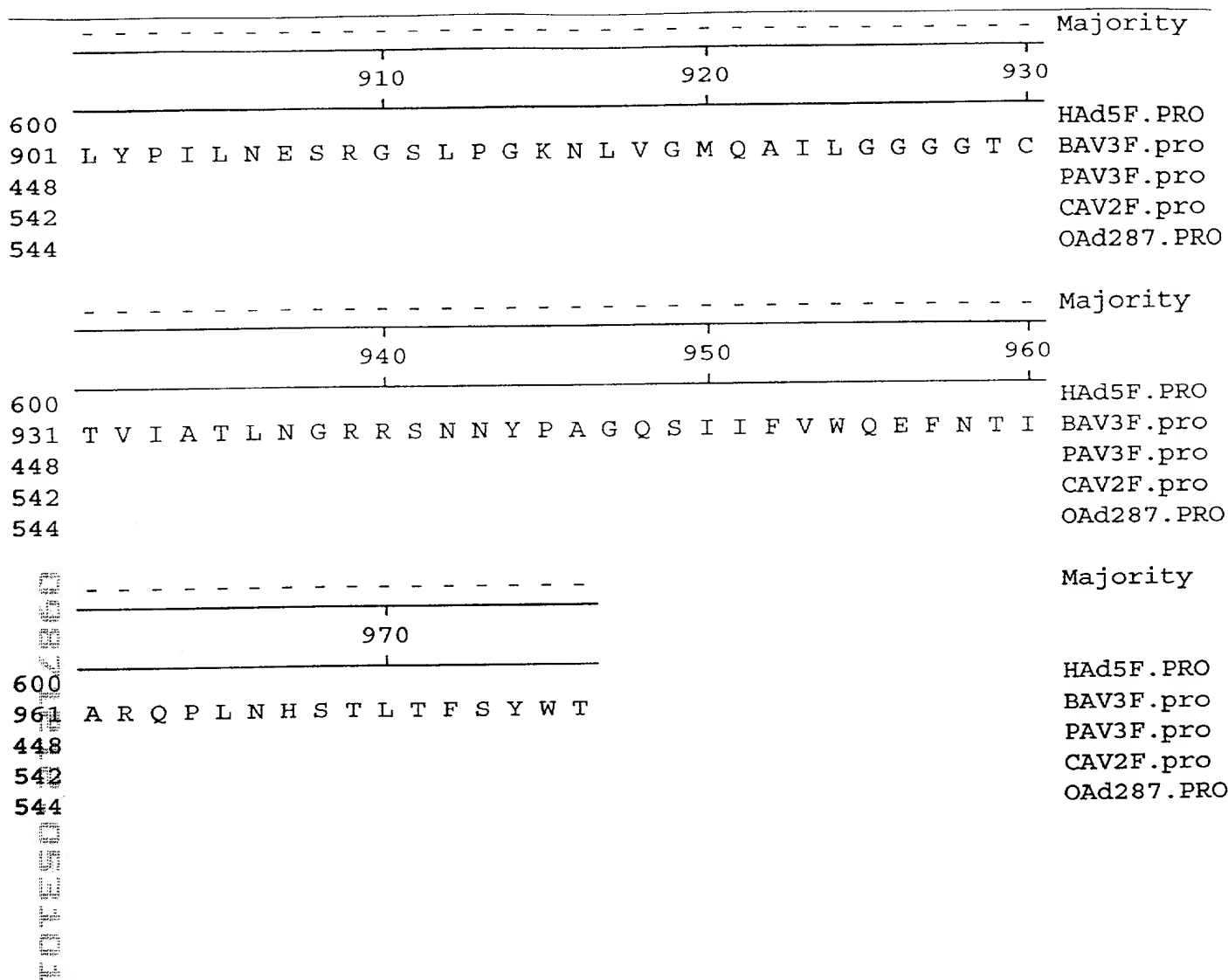


FIGURE 17G